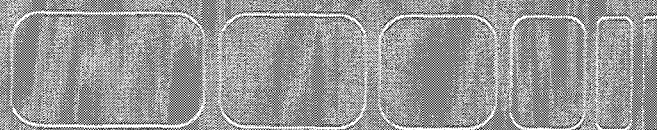
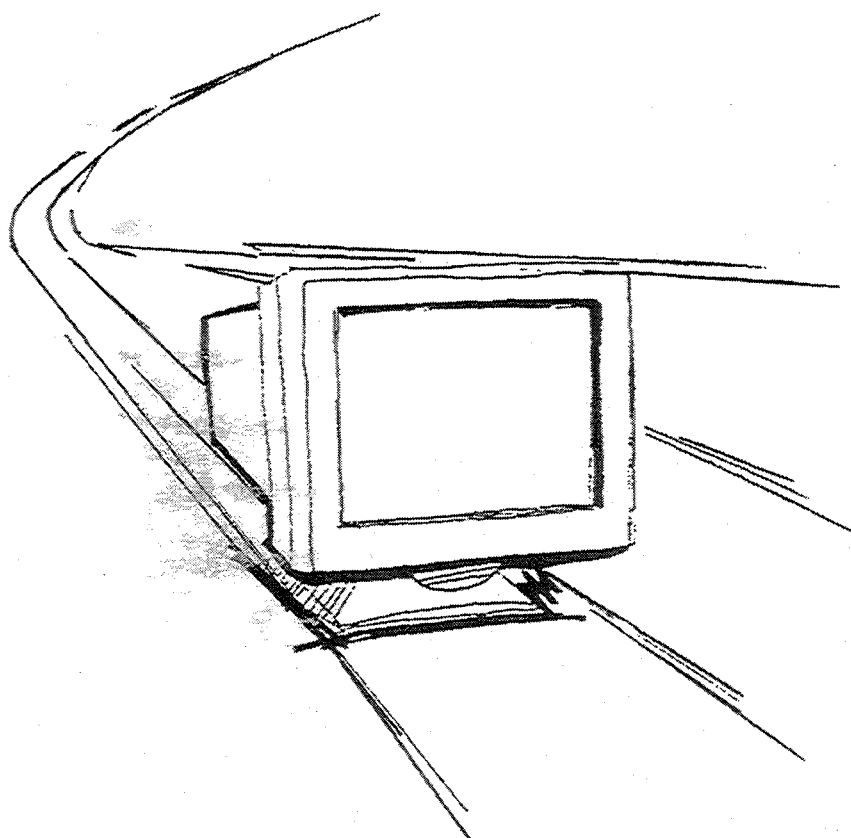


Fig C



1769E/SE.1792E/SE

SERVICE MANUAL



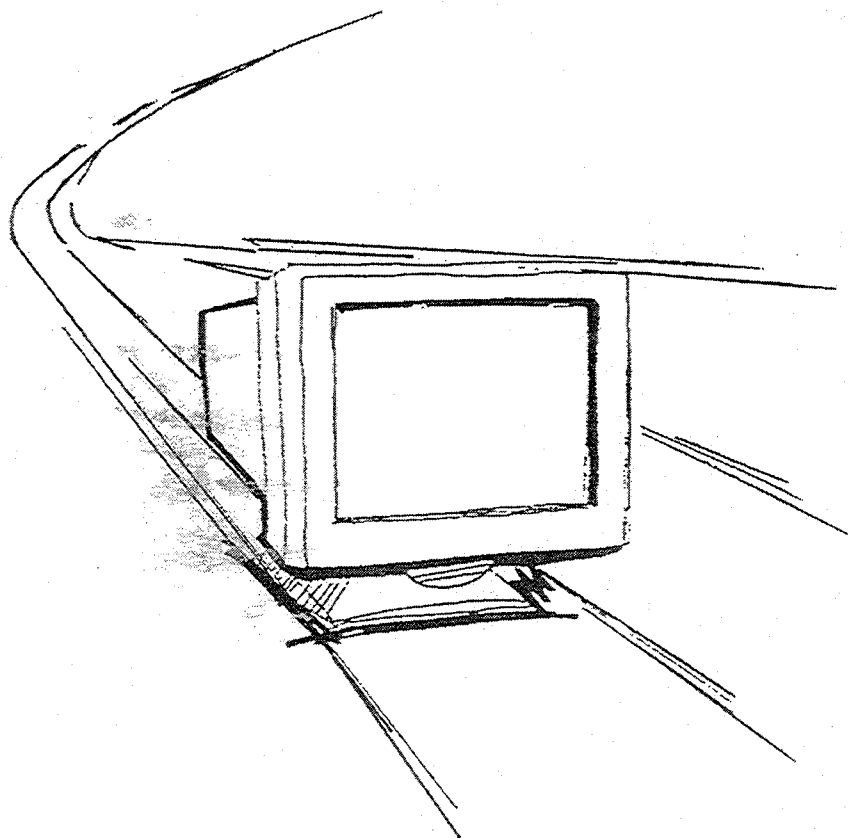
CTX

The Monitor Specialists

EDITION 1
Jul. 1997

SERVICE MANUAL

1792E/SE



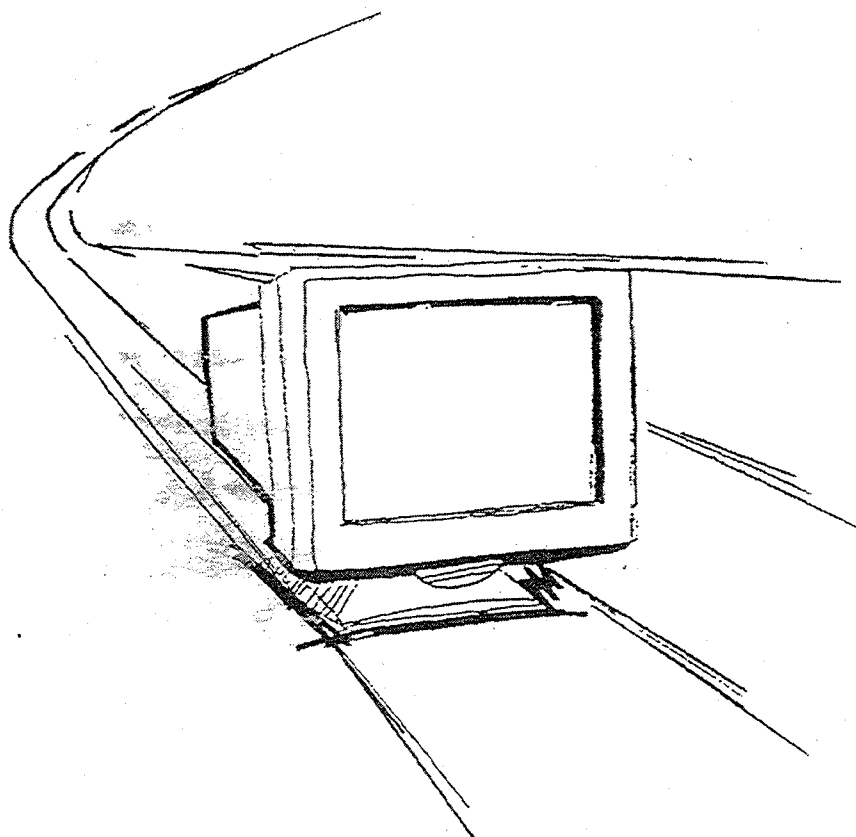
CTX

The Monitor Specialists

EDITION 1
Jul. 1997

SERVICE MANUAL

1769E/SE.



CTX

The Monitor Specialists

EDITION 1
Jul. 1997

Copyright © 1997 by Chuntex Electronic Co., Ltd.

The CTX SERVICE MANUAL is published by Chuntex Electronic Co., Ltd.

All rights reserved. No part of this manual may be used, copied, reproduced, or transmitted in any form or by any means for any purpose without the express written permission of the publisher.

The publisher has been trying its best to make this publication perfect, and in this manner takes no responsibility for the use of any of the materials or methods described in this manual, or for the products thereof. Neither will the publisher be responsible for any damages caused by misuse or misquotation.

Information in this manual is subject to change by the publisher without any notice in advance.

CTX is a registered trademark of Chuntex Electronic Co., Ltd.

CONTENTS

1.0 IMPORTANT NOTICE & INTRODUCTION	1
2.0 GENERAL MAINTENANCE PROCEDURE	2
3.0 FUNCTION BLOCK DIAGRAM	3
4.0 DESCRIPTION OF CIRCUIT	4
5.0 TIMING MODE (CTX PRESETTING TIMING)	5
6.0 ADJUSTMENT	8
6.1 1769E/SE.1792E/SE ADJUSTMENT	8
7.0 TROUBLESHOOTING	10
7.1 MAIN TROUBLESHOOTING ROUTINE	10
7.2 POWER SUPPLY CIRCUIT TROUBLESHOOTING ROUTINE	11
7.3 MICON CIRCUIT TROUBLESHOOTING ROUTINE	14
7.4 VIDEO CIRCUIT TROUBLESHOOTING ROUTINE	18
7.5 DEFLECTION CIRCUIT TROUBLESHOOTING ROUTINE	23
7.5.1 <i>Horizontal Deflection Circuit</i>	23
No Raster	23
H-Asynchronous	24
Linearity	25
Out of phase	26
Width Abnormal	26
7.5.2 <i>Vertical Deflection Circuit</i>	27
No vertical scan	27
Side pin distortion	28
V-Asynchronous	29
Vertical position	29
Vertical Size	30
8.0 IC CONFIGURATION	37
9.0 PARTS LIST	39
10.0 LAYOUT FOR MAIN COMPONENTS AND ADJUSTED	61
11.0 CIRCUIT DIAGRAM	61
12.0 EXPLODED VIEW	61

1.0 IMPORTANT NOTICE & INTRODUCTION

IMPORTANT NOTICE

Please read before attempting service

1. While the monitor is in operation, do not attempt to connect or disconnect any wires.
2. Make sure the power cord is disconnected before replacing any parts in the monitor.
3. When the power is on, do not attempt to short any portion of the circuit. This shorting may cause damage to the transistors in the monitor.
4. When servicing the H.V. area, be certain that the C.R.T anode is safely discharged before removing the anode cap.
5. Caution must be exercised when servicing this monitor.

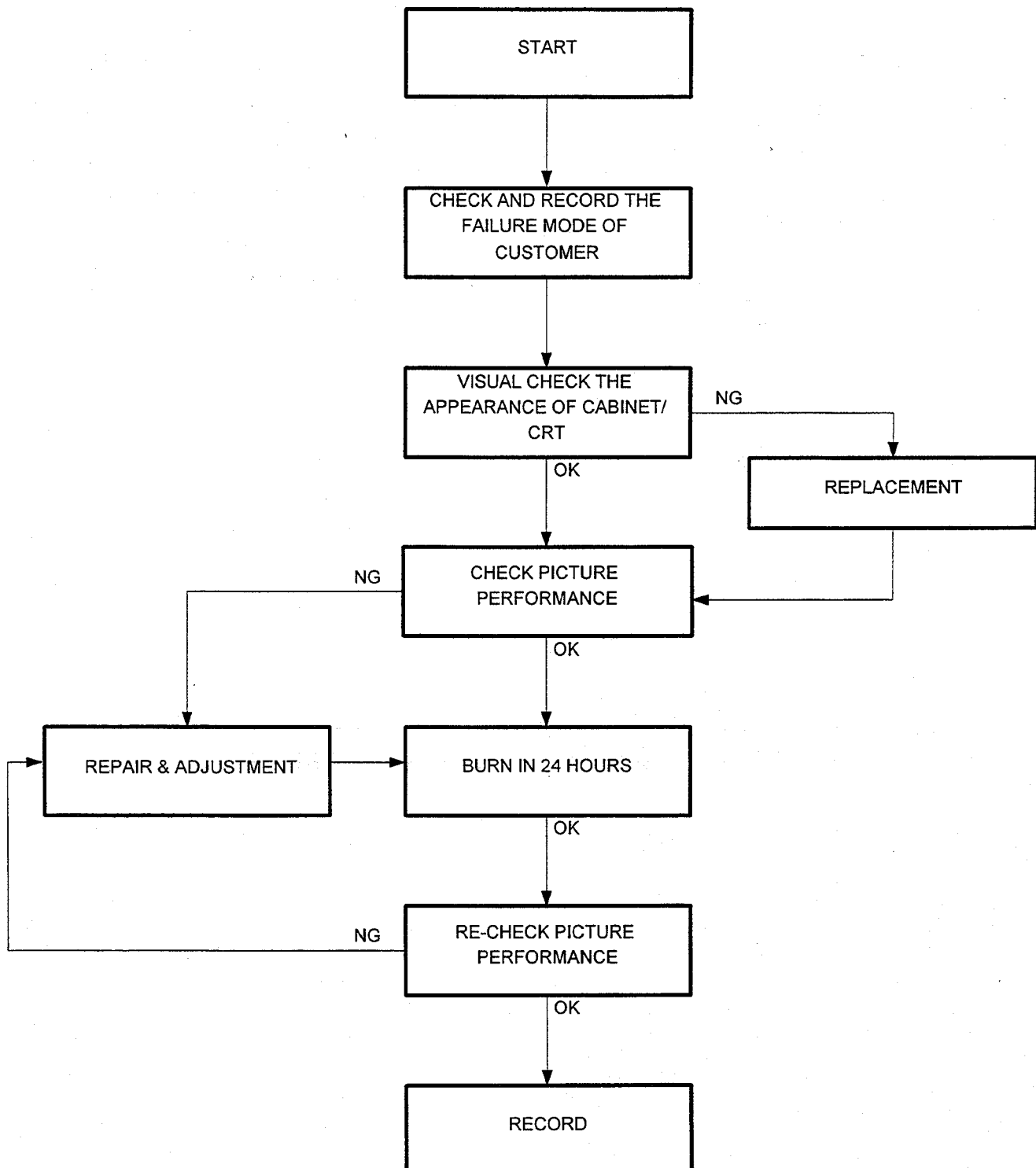
INTRODUCTION

Enhanced repair capabilities

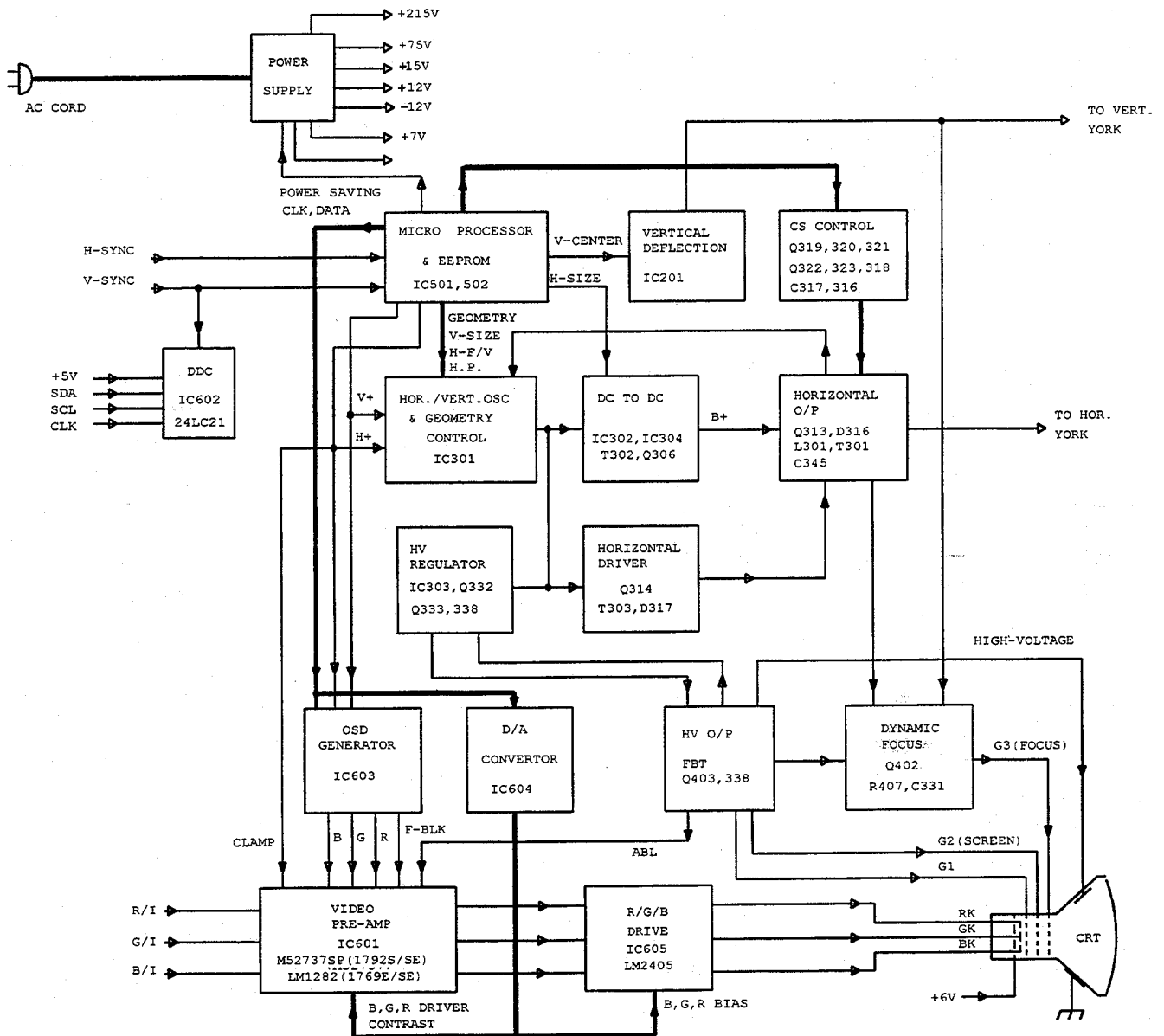
This troubleshooting guide is edited for model 1769E/SE.1792E/SE when service is necessary. There are four primary parts included in this troubleshooting guide which offer the easiest way to locate problem points and repair the machine to the best possible condition.

1. The Adjustment section offers the adjustable method, steps and all data of the factory's initial settings which can make the machine get the best performance at that time. By the way, before adjusting, the machine must be warmed up for at least 10 minutes and the CRT face must be in an eastward direction.
2. The Troubleshooting section has four main parts including: power supply, micon circuit, CRT, deflection & video circuit. Each offers fast repair routine and the IC, transistor voltage records against all specified signal modes. These voltage readings are measured with a HP 34401A multimeter with input impedance $10M\Omega$ (0.1V~1000V range) and waveforms shown on circuit schematics are measured by a Tektronix TDS 520 digital oscilloscope, the monitor receives VGA-480 full white square pattern.

3. The CRT contrast list offers repairmen / technicians the contrast data when CRT replacement is necessary from a different type of CRT.
4. The Spare parts list offers the CTX part number (P/N) which is used frequently by repairmen / technicians. For details please refer to the service guide or service manual. If there is any engineering change regarding this model, CTX will issue the updated information by a non-periodical Technical Bulletin.
5. The transistor voltage records are measured from LEFT side to RIGHT side when face to the front (printed side) of transistor.

2.0 GENERAL MAINTENANCE PROCEDURE

3.0 FUNCTION BLOCK DIAGRAM



4.0 DESCRIPTION OF CIRCUIT

1. Power supply circuit

The power supply is a serial & universal AC input switching power supply. The start up circuit (Q101, C105) will provide a DC voltage for PWM (Pulse Width Modulation) IC (IC101) when power on. When IC101 works normal, Q101 will be cut off by the DC voltage from T101 secondary winding. The IC101 will Auto-detect output voltage of power supply from Pin2 and correct the duty cycle of Pin6 output pulse to compensate the variation of output voltage.

The output of IC101 Pin6 connected to power mosfet to drive the power transformer T101. When power mosfet is on, the energy stored in the primary winding of T101. Once mosfet is off, the energy transfer to the secondary and charges the output capacitor to get the stable DC voltage.

2. Oscillation circuit

The functions V-size, V-center, Side-pin, Parallelare designed inside into IC301. The Pin26 of IC301 is H-sync input, Pin25 is H-phase control, Pin13 is square wave output and connected to horizontal output stage & H.V output stage. The Q420, Q421 are X-RAY protect input. When H.V. output circuit is abnormal (H.V. too high) the X-RAY protect circuit will shut off the horizontal output, H.V. also will be shut down. The Pin27 is vertical sync input, Pin9 is vertical sync output connected to IC201 (Amplifier), Pin2 of IC201 is vertical amplifier output drives the vertical deflection directly.

3. Horizontal output circuit

The DC-DC is to generate a DC voltage (B^+) for horizontal output circuit. The IC302 and IC304 are control the H-SIZE, the output of IC304 connected to gate of Q306 to make the Q306 switching. When Q319 is ON, the energy stored in L303 and the energy released when Q306 turned OFF. The B^+ applied to H-DY through T302 primary winding to make horizontal deflection.

4. Micon circuit

The function of MICON is to provide the interface between user, PC and monitor. The CPU will detect polarity and frequency of input H.V. Sync.. The CPU will determine

the mode of input timing (preset or users mode) and load mode data from IC502 to IC501. The output of CPU were connected to other function circuit (ie. H-phase, G2, Rotation, H-F/V). Also, the user can adjust picture from key board and the data will be saved into IC502 automatically. For the O.S.D. mode, when O.S.D. manual is active CPU will inform the O.S.D IC (IC603) to send O.S.D BLK signal to blank the video signal from VGA card, and the O.S.D. IC will send O.S.D. R.G.B. Video signal the consist the O.S.D. manual. The IC604 is D/A converter, Pin12, 13, 14 of IC604 and Q620, Q621, Q624, Q625, Q622, Q623 are R.G.B. BIAS control. The IC605 is R.G.B..

5. H.V. regulation circuit

The PWM control IC3843 is kernel of the circuit. The 3843 will detect the output of H-O/P and then change the duty of Pin6. When Q338 is on, the energy stored in the secondary of power transformer. The energy will be released and to get the B^+ when Q338 turned off. So, the input duty cycle of Q338 gate is higher, the output B^+ is higher. The H.V adjustment circuit consist of Q338, Q403, C407, C402 and H.V regulation CIRCUIT(Q338, Q332, Q333, IC303) which control the H.V output level. The duty cycle of Q338 gate directly control output voltage of C407. The C407 is a supply capacitor which supply the energy to primary winding of FBT and Q335 switch repeatedly to transfer the energy to FBT secondary winding.

6. Video output circuit

Video circuit consists of video preamplifier IC601 and output cascode amplifier with IC605, IC601 is a video processing IC equipped with three DC amplifiers to pre-amplify R.G.B. signals from 0.6V to 3V. The voltage gain of these amplifiers are all DC controlled from IC501.

The R.G.B. GAIN & BIAS control signal are from IC604 to IC603, so simple voltage drive with resistors and timmers can be used to adjust the voltage GAIN and BIAS of each R.G.B. signal's amplification and thus achieve a well balance white picture.

The O.S.D. R.G.B.(Pin1, 2, 3 of IC601) is to control picture of O.S.D. window. The IC605 is R.G.B. driver to capable of driving CRT.

5.0 TIMING MODE (CTX presetting Timing)

NAME	720X400-70		640X480-60		640X480-85		640X480-120		800X600-85	
PIXEL CLOCK	28.322 MHz		25.2 KHz		36.000 MHz		54.890 MHz		56.250 MHz	
Fh	31.469 KHz		31.469 KHz		43.269 KHz		63.530 KHz		53.674 KHz	
Fv	30.087 Hz		59.940 Hz		85.008 Hz		119.868 Hz		85.061 Hz	
INTERLACE MODE	NO		NO		NO		NO		NO	
VIDEO	ANALOG-COLOR		ANALOG COLOR		ANALOG COLOR		ANALOG COLOR		ANALOG COLOR	
XS SYNC ON GREEN	NO		NO		NO		NO		NO	
VIDEO LEVEL	700mv		700mv		700mv		714mv		714mv	
WHITE LEVEL	714mv		700mv		700mv		700mv		700mv	
BLANK LEVEL	0 IRE		0 IRE		0 IRE		0 IRE		0 IRE	
16 BIT HEX DATA	0000		0000		0000		0000		0000	
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms
H TOTAL	900	31.77 us	800	31.746 us	832	23.111 us	864	15.741 us	1048	18.631 us
H DISPLAY	720	25.422 us	640	25.397 us	640	17.778 us	640	11.660 us	800	14.22 us
H B-PORCH	54	1.907 us	48	1.905 us	112	3.111 us	95	3.731 us	152	2.702 us
H-S-WIDTH	108	3.813 us	96	3.810 us	48	1.333 us	96	1.749 us	64	1.138 us
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us
H SIZE	4.000mm		4.000mm		4.000mm		4.000mm		4.000mm	
V TOTAL	449	14.268 ms	525	16.667 ms	509	11.764 ms	530	8.343 ms	631	11.756 ms
V DISPLAY	400	12.711 ms	480	15.238 ms	480	11.093 ms	480	7.555 ms	600	11.179 ms
V B-PORCH	35	1.112 ms	33	1.048 ms	25	0.578 ms	36	0.567 ms	27	0.503 ms
V S WIDTH	2	0.064 ms	2	0.063 ms	3	0.069 ms	6	0.094 ms	3	0.056 ms
V BORDER	0	0.000 ms	0	0.000 ms	0	0.00ms	0	0.000 ms	0	0.000 ms
V SIZE	3.000mm		3.000mm		3.000mm		3.000mm		3.000mm	
H S OUTPUT	ON(-)		ON(-)		ON(-)		ON(-)		ON(+)	
V S OUTPUT	ON(+)		ON(-)		ON(-)		ON(-)		ON(+)	
X S OUTPUT	ON(-)		ON(-)		ON(-)		ON(+)		ON(+)	
X S SELETE	H		H		H		H		H	
MODEL	1769E/SE 1792E/SE		1769E/SE 1792E/SE		1769E/SE 1792E/SE		1769E/SE 1792E/SE		1769E/SE 1792E/SE	

NAME	800X600-100		1280X1024-60		1024X768-85		1024X768-85	
PIXEL CLOCK	67.397 MHz		108 MHz		94.500 MHz		94.500 MHz	
Fh	63.883 KHz		63.891 KHz		68.677 KHz		68.677 KHz	
Fv	99.973 Hz		60.020 Hz		84.997 Hz		84.997 Hz	
INTERLACE MODE	NO		NO		NO		NO	
VIDEO	ANALOG-COLOR		ANALOG COLOR		ANALOG COLOR		ANALOG COLOR	
XS SYNC ON GREEN	NO		NO		NO		NO	
VIDEO LEVEL	700mv		714mv		714mv		700mv	
WHITE LEVEL	700mv		700mv		700mv		700mv	
BLANK LEVEL	0 IRE		0 IRE		0 IRE		0 IRE	
16 BIT HEX DATA	0000		0000		0000		0000	
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms
H TOTAL	1055	15.654 us	1688	15.630 us	1376	14.561 us	1376	14.561 us
H DISPLAY	800	11.870 us	1280	11.852 us	1024	10.836 us	1024	10.836 us
H B-PORCH	135	2.003 us	248	2.296 us	208	2.201 us	208	2.20 us
H-S-WIDTH	80	1.187 us	112	1.037 us	96	1.016 us	96	1.016 us
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us
H SIZE	4.000mm		4.000mm		4.000mm		4.000mm	
V TOTAL	639	10.003 ms	525	16.661 ms	808	11.765 ms	808	11.765 ms
V DISPLAY	600	9.392 ms	480	16.005 ms	768	11.183 ms	768	11.183 ms
V B-PORCH	32	0.501 ms	33	0.594 ms	36	0.524 ms	36	0.524 ms
V S WIDTH	4	0.063 ms	2	0.047 ms	3	0.044 ms	3	0.044 ms
V BORDER	0	0.000 ms	8	0.000 ms	0	0.000 ms	0	0.000 ms
V SIZE	3.000mm		3.000mm		3.000mm		3.000mm	
H S OUTPUT	ON(-)		ON(+)		ON(+)		ON(+)	
V S OUTPUT	ON(-)		ON(+)		ON(+)		ON(+)	
X S OUTPUT	ON(-)		ON(+)		ON(+)		ON(+)	
X S SELETE	H		H		H		H	
MODEL	1769E/SE		1792E/SE		1792E		1769E/SE	

NAME	1280X1024-60		800X600-120		1024X768-100		1280X1024-85	
PIXEL CLOCK	108 MHz		81.000 MHz		110.000 KHz		157.500 MHz	
Fh	63.981 KHz		75.985 KHz		80.468 KHz		91.146 KHz	
Fv	60.020 Hz		120 Hz		99.836 Hz		85.024 Hz	
INTERLACE MODE	NO		NO		NO		NO	
VIDEO	ANALOG-COLOR		ANALOG COLOR		ANALOG COLOR		ANALOG COLOR	
XS SYNC ON GREEN	NO		NO		NO		NO	
VIDEO LEVEL	700mv		700mv		700mv		700mv	
WHITE LEVEL	700mv		700mv		700mv		700mv	
BLANK LEVEL	0 IRE		0 IRE		0 IRE		0 IRE	
16 BIT HEX DATA	0000		0000		0000		0000	
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms
H TOTAL	1688	15.630 us	1066	13.160 us	1367	12.427 us	1728	0.971 us
H DISPLAY	1280	11.852 us	796	9.827 us	1024	9.309 us	1280	8.127 us
H B-PORCH	248	2.296 us	158	1.951 us	214	1.945 us	240	1.524 us
H-S-WIDTH	112	1.037 us	87	1.074 us	118	1.073 us	160	1.016 us
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us
H SIZE	4.000mm		4.000mm		4.000mm		4.000mm	
V TOTAL	1066	16.661 ms	633	8.331 ms	806	10.016 ms	1072	11.76 ms
V DISPLAY	1024	16.005 ms	600	7.896 ms	769	9.55 ms	1024	11.235 ms
V B-PORCH	38	0.594 ms	29	0.382 ms	34	0.433 ms	44	0.483 ms
V S WIDTH	3	0.047 ms	3	0.039 ms	3	0.037 ms	3	0.033 ms
V BORDER	0	0.000 ms	0	0.000 ms	0	0.000 ms	0	0.000 ms
V SIZE	3.000mm		3.000mm		3.000mm		3.000mm	
H S OUTPUT	ON(+)		ON(-)		ON(-)		ON(+)	
V S OUTPUT	ON(+)		ON(-)		ON(-)		ON(+)	
X S OUTPUT	ON(+)		ON(-)		ON(-)		ON(+)	
X S SELETE	H		H		H		H	
MODEL	1769E/SE		1792E/SE		1792E/SE		1792E/SE	


6.0 ADJUSTMENT

6.1 1769E/SE.1792E/SE ADJUSTMENT

REM:PRESET MODE DATA ADJUSTMENT:

- A. Turn off it.
- B. Insert service port or press the \oplus and \ominus at same time which on the external control panel.
- C. Turn on it.

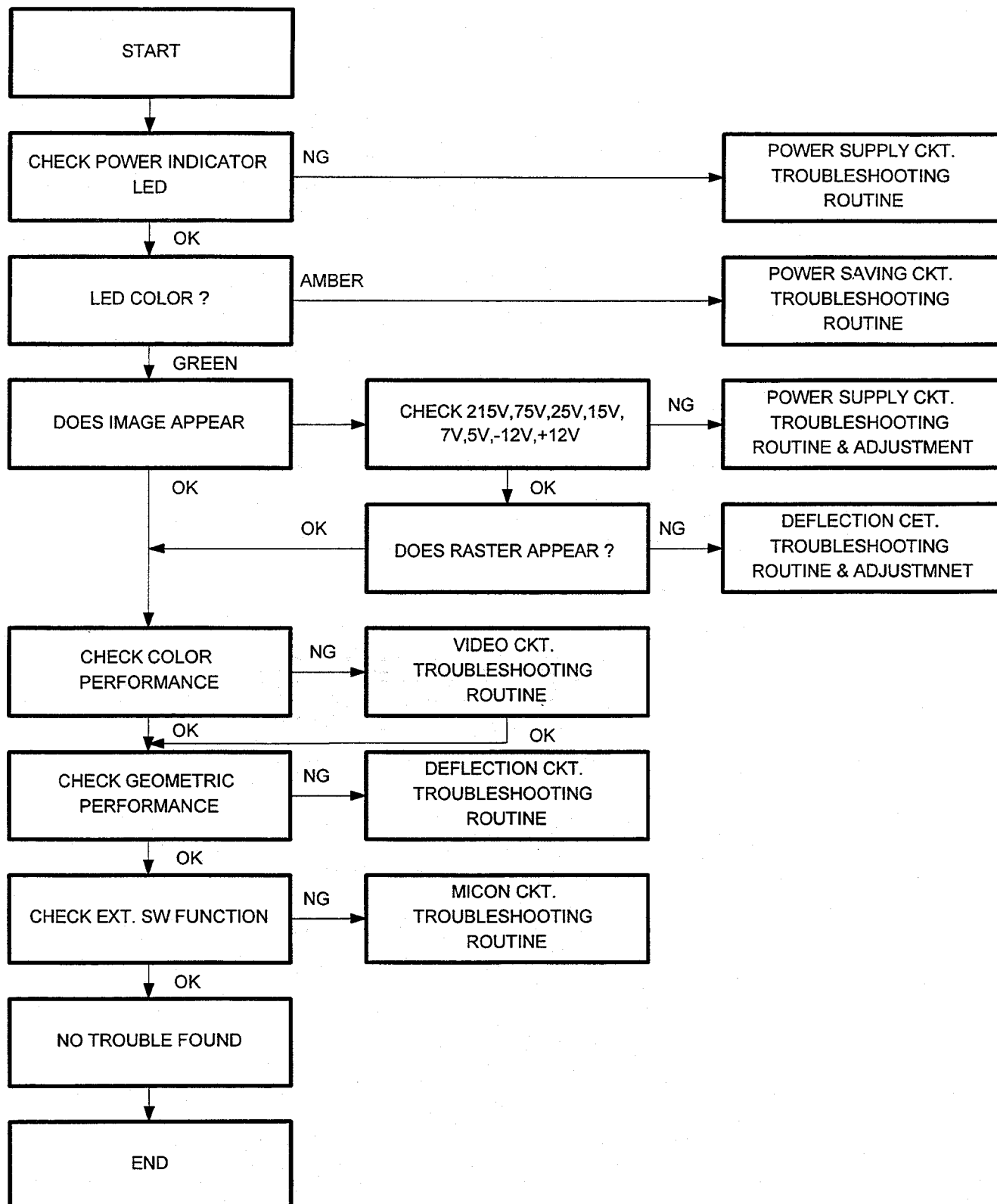
Remark: Before adjusting, monitor must warm up 10 minutes and CRT must be degaussed.

ADJUSTMENT	LOCATION	SPECIFICATION/DESCRIPTION	TIMING & PATTERN
215V	VR101	J127=215V \pm 0.5V	VGA-480
12V	VR102	J144=12V \pm 0.2V	"
H.V.	VR403	CRT ANODE=26KV \pm 0.5KV	"
H-HOLD	VR302	Picture stand or flow slowly when TP301 shorted to GND.	"
FOCUS	FOCUS VR1 & VR2 ON FBT	OPTIMUM	64KHz "m" pattern
V-SIZE	1.EXT SW	Just over scan when OSD. V-SIZE SW. is MAX.	All of PRESET modes X'HATCH
	2.EXT SW	V-SIZE=232mm \pm 5mm	
H-PHASE	EXT SW	$\frac{ R-L }{2} \leq 3\text{mm}$	All of PRESET modes , X'HATCH
V-CENTER	EXT SW	$\frac{ U-D }{2} \leq 3\text{mm}$	All of PRESET modes , X'HATCH
H-WIDTH	VR306	Just over scan when OSD. H-WIDTH SW. is Max.	SVGA II
	EXT SW	H-WIDTH=310 \pm 5mm	All of PRESET modes , X'HATCH
PCC 	EXT SW	Let right side be straight	64KHz ,X'HATCH
HOLD DOWN TEST	P406	P406 short should be hold down	31.5KHz FULL WHITE
CORNER	VR303	Let right side be straight	64KHz ,X'HATCH
WHITE BALANCE PRE ADJ.	OSD. CONTRAST	MAX. (DAC=100)	VGA-480 , MOSAIC
	OSD. BRIGHTNESS	CLICK POINT (DAC=50)	Ditto
	OSD. G2	RASTER Y=0.06FL	Ditto
	OSD. R.G.B. BIAS	RASTER x=281 \pm 30,y=311 \pm 30	Ditto
	OSD. CONTRAST	MOSAIC=45FL..	Ditto

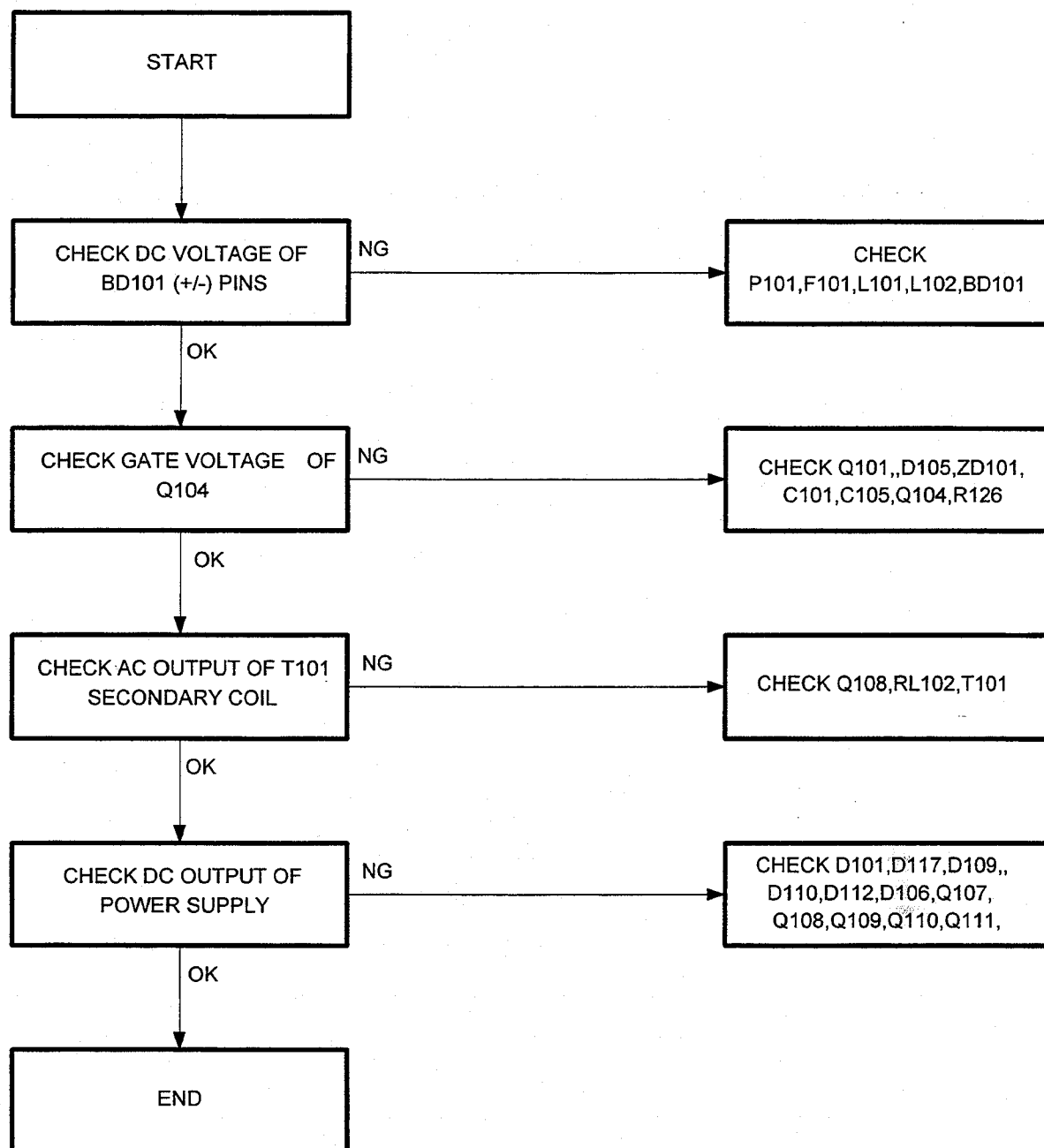
ADJUSTMENT	LOCATION	SPECIFICATION/DESCRIPTION	TIMING & PATTERN																																																																																	
WHITE BALANCE ADJ.	OSD. R.G.B. GAIN	MODE 1(9300°K):x=281 ± 30, y=311 ± 30 MODE 2(7500°K):x=301 ± 40, y=310 ± 40 MODE 3(6500°K):x=313 ± 40, y=329 ± 40 MODE 4(5000°K):x=345 ± 40, y=351 ± 40	VGA-480,FULL WHITE																																																																																	
	OSD. R.G.B. BIAS	x=281 ± 10,y=311 ± 10 When CONTRAST is in 2-3FL.	VGA-480,FULL WHITE																																																																																	
BRIGHTNESS SETTING	OSD. BRIGHTNESS	DAC=50	Ditto																																																																																	
	OSD. CONTRAST	MAX. (DAC=100)	Ditto																																																																																	
	OSD. G2 MANUAL	The "2" row of color bar pattern is just visible.																																																																																		
	<table><tr><td colspan="2">Brightness</td><td colspan="2">R+B</td><td colspan="2">B+G</td><td colspan="2">R+G</td><td></td></tr><tr><td rowspan="8">reduce ↓</td><td>15</td><td>BRIGHT BLUE</td><td>BRIGHT RED</td><td>BRIGHT PRUPLE</td><td>GREEN</td><td>BLUE + GREEN</td><td>RED + YELLOW</td><td>WHITE</td><td>7</td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6</td></tr><tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2 → visible</td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1 → visible obscurely</td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td></tr></table>			Brightness		R+B		B+G		R+G			reduce ↓	15	BRIGHT BLUE	BRIGHT RED	BRIGHT PRUPLE	GREEN	BLUE + GREEN	RED + YELLOW	WHITE	7	14								6	13								5	12								4	11								3	10								2 → visible	9								1 → visible obscurely	8							
Brightness		R+B		B+G		R+G																																																																														
reduce ↓	15	BRIGHT BLUE	BRIGHT RED	BRIGHT PRUPLE	GREEN	BLUE + GREEN	RED + YELLOW	WHITE	7																																																																											
	14								6																																																																											
	13								5																																																																											
	12								4																																																																											
	11								3																																																																											
	10								2 → visible																																																																											
	9								1 → visible obscurely																																																																											
	8								0																																																																											
CONVERGENCE ADJ.	4 POLE OF PCM	Vertical RED and BLUE lines are converged by varying the angle between the two tabs.	VGA-480 , MAGERTA X'HATCH																																																																																	
	4 POLE OF PCM	Horizontal RED and BLUE lines are converged by moving the two tabs at the same time.	VGA-480 , MAGENTA X'HATCH																																																																																	
	6 POLE OF PCM	Vertical GREEN and MAGENTA lines are converged by varying the angle between the two tabs.	VGA-480 , X'HATCH																																																																																	
	6 POLE OF PCM	Horizontal GREEN and MAGENTA lines are converged by moving the two tabs at the same time.	VGA-480 , X'HATCH																																																																																	
	<div><p>DEFLECTION YOKE</p><p>6-POLE CONVERGENCE MAGNETS</p><p>4-POLE CONVERGENCE MAGNETS</p><p>PURITY MAGNETS</p><p>PCM: PURITY CONVERGENCE MAGNET</p></div>																																																																																			

7.0 TROUBLESHOOTING

7.1 MAIN TROUBLESHOOTING ROUTINE



7.2 POWER SUPPLY CIRCUIT TROUBLESHOOTING ROUTINE



TEST CONDITIONS: TIMING : 640X480-60Hz (31K)
PATTERN: CROSS HATCH

Unit: Volt

IC	IC101 (SG3842)							
PIN	1	2	3	4	5	6	7	8
AC IN								
110V	2.94	2.51	0.86	2.45	GND	3.44	15.30	5.03
220V	2.65	2.51	0.42	2.46	GND	1.45	15.23	5.03

IC	IC103 (PS2561)				IC104 (TL431)		
PIN	1	2	3	4	R	A	K
AC IN							
110V	75.0	73.83	2.08	5.03	73.15	0.11	75.04
220V	148.9	147.8	2.40	5.03	145.3	143.1	147.5

TR	Q101 (BT169D)			Q103 (C945)		
PIN	K	G	A	E	C	B
AC IN						
110V	0.70	0	140.0	GND	0	0.72
220V	0.15	0	291.4	GND	0	0.72

TR	Q104 (2SK1507)			TR	Q102 (C945)		
PIN	G	D	S	PIN	E	C	B
STATUS				STATUS			
110V	3.04	138.4	0.85	NORMAL	GND	15.38	0.28
220V	1.05	297.06	0.41	DEGAUSS	GND	15.43	0.81

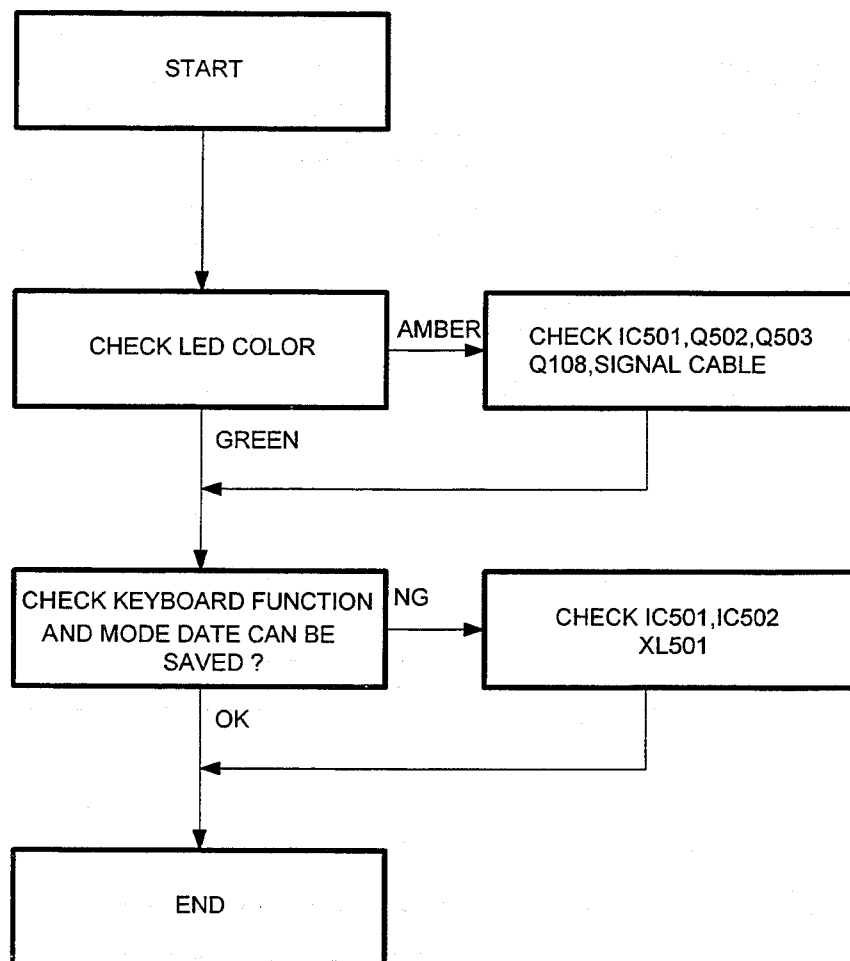
TR	IC102 (5002L)			IC501 (16P40 0.22F)	
PIN	I	G	O	20	21
STATUS					
NORMAL	6.75	GND	5.04	0.37	0.19
STAND BY	6.95	GND	5.04	4.79	0.19
OFF	6.76	GND	5.04	4.79	0.19

TR	Q105 (A733)			Q106 (C945)			Q107 (2SD882)		
PIN	E	C	B	E	C	B	E	C	B
STATUS									
NORMAL	6.95	2.48	6.91	GND	6.88	0.20	12.08	15.27	12.73
STAND BY	7.00	6.96	6.32	GND	0.07	0.69	-0.02	-0.69	-0.58
OFF	7.00	6.96	6.31	GND	0.05	0.70	-0.05	-0.67	-0.58

TR	Q109 (C945)			Q110 (B562)			Q111 (C945)		
STATUS ^{PIN}	E	C	B	E	C	B	E	C	B
NORMAL	6.22	12.73	0.64	6.90	6.67	6.07	GND	3.47	0.68
STAND BY	-0.44	-0.58	-0.17	6.95	6.73	6.11	GND	3.59	0.68
OFF	-0.42	-0.58	-0.18	7.00	0	7.00	GND	7	0

TR	Q502 (C945)			Q503 (A733)			Q108 (C945)		
STATUS ^{PIN}	E	C	B	E	C	B	E	C	B
NORMAL	0.29	1.98	0.18	1.98	1.93	1.26	GND	6.95	16.60
STAND BY	1.88	1.92	2.62	1.92	0.46	4.76	GND	1.11	0.78
OFF	1.88	1.92	2.62	1.92	0.52	4.78	GND	1.12	0.79

7.3 MICON CIRCUIT TROUBLESHOOTING ROUTINE



TEST CONDITIONS: AC LINE IN:110V/60Hz
 PATTERN: CROSS HATCH
 STATUS : NORMAL

Unit: Volt

IC		IC501 (16P40 0.22F)									
MODEL	MODE PIN	1	2	3	4	5	6	7	8	9	10
1769E/SE	640X480-60 (31K)	2.54	0.97	3.61	5.03	5.03	GND	2.77	2.61	0.43	5.03
	640X480-85 (43K)	2.29	0.97	3.62	5.03	5.03	GND	2.77	2.61	0.43	5.03
	1024X768-85 (69K)	2.04	2.97	3.62	5.03	5.03	GND	2.77	2.61	0.43	5.03
1792E/SE	640X480-60 (31K)	2.57	1.28	1.07	5.03	5.03	GND	2.77	2.52	0.96	5.03
	800X600-50 (53K)	2.36	1.18	1.07	5.03	5.03	GND	2.77	2.52	0.86	5.03
	1280X1024-85 (92K)	1.95	1.18	1.07	5.03	5.03	GND	2.77	2.52	0.86	5.03

IC		IC501 (16P40 0.22F)									
MODEL	MODE PIN	11	12	13	14	15	16	17	18	19	20
1769E/SE	640X480-60 (31K)	5.03	5.03	5.03	5.03	5.03	0.09	0.09	0.10	0.10	0.18
	640X480-85 (43K)	5.03	5.03	5.03	5.03	5.03	5.00	0.09	5.00	0.10	0.18
	1024X768-85 (69K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	5.00	0.10	0.18
1792E/SE	640X480-60 (31K)	5.03	5.03	5.03	5.03	5.03	0.01	0.01	0.01	5.00	0.07
	800X600-50 (53K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	0.01	0.01	0.07
	1280X1024-85 (92K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	5.00	5.00	0.07

IC		IC501 (16P40 0.22F)									
MODEL	MODE PIN	21	22	23	24	25	26	27	28	29	30
1769E/SE	640X480-60 (31K)	0.19	0.25	0.11	0.11	5.03	5.03	4.87	1.92	1.32	1.88
	640X480-85 (43K)	0.19	0.25	0.11	0.11	5.03	5.03	4.87	1.92	1.52	1.90
	1024X768-85 (69K)	0.19	0.25	0.11	0.12	5.03	5.03	4.87	1.92	1.78	1.78
1792E/SE	640X480-60 (31K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	1.82	2.34
	800X600-50 (53K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	1.81	2.21
	1280X1024-85 (92K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	2.68	2.12

IC		IC501 (16P40 0.22F)										
MODE		PIN	31	32	33	34	35	36	37	38	39	40
1769E/SE	640X480-60 (31K)		3.40	0.31	0.59	2.49	2.16	1.75	2.56	0.18	4.13	4.69
	640X480-85 (43K)		3.76	0.31	0.28	2.38	2.27	2.45	2.46	1.06	4.42	4.68
	1024X768-85 (69K)		3.87	0.31	0.35	2.36	2.32	2.32	2.64	3.04	0.39	0.22
1792E/SE	640X480-60 (31K)		2.37	0.20	0.59	2.48	2.18	1.38	2.47	0.16	3.44	4.68
	800X600-50 (53K)		2.86	0.20	0.30	2.43	2.24	1.91	2.49	1.86	0.30	0.23
	1280X1024-85 (92K)		2.90	0.20	0.45	2.28	2.33	2.08	2.79	4.88	0.43	0.22

IC		IC502 (AT24C04)								
MODE		PIN	1	2	3	4	5	6	7	8
1769E/SE	640X480-60 (31K)		5.03	GND	5.03	GND	0.43	5.03	GND	5.03
	640X480-85 (43K)		5.03	GND	5.03	GND	0.43	5.03	GND	5.03
	1024X768-85 (69K)		5.03	GND	5.03	GND	0.43	5.03	GND	5.03
1792E/SE	640X480-60 (31K)		5.03	GND	5.03	GND	0.85	5.03	GND	5.03
	800X600-50 (53K)		5.03	GND	5.03	GND	0.85	5.03	GND	5.03
	1280X1024-85 (92K)		5.03	GND	5.03	GND	0.85	5.03	GND	5.03

IC		IC503 (74LS74)							
MODE		PIN	1	2	3	4	5	6	7
MODEL									
1769E/SE	640X480-60 (31K)	NC	2.08	0.27	NC	1.97	2.08	GND	
	640X480-85 (43K)	NC	2.11	0.27	NC	1.97	2.11	GND	
	1024X768-85 (69K)	NC	2.13	0.27	NC	1.97	2.11	GND	
1792E/SE	640X480-60 (31K)	NC	2.08	0.27	NC	1.97	2.08	GND	
	800X600-50 (53K)	NC	2.11	0.27	NC	1.97	2.11	GND	
	1280X1024-85 (92K)	NC	2.13	0.27	NC	1.97	2.11	GND	

IC		IC503 (74LS74)							
MODE		PIN	8	9	10	11	12	13	14
MODEL									
1769E/SE	640X480-60 (31K)		NC	NC	NC	NC	NC	NC	5.03
	640X480-85 (43K)		NC	NC	NC	NC	NC	NC	5.03
	1024X768-85 (69K)		NC	NC	NC	NC	NC	NC	5.03
1792E/SE	640X480-60 (31K)		NC	NC	NC	NC	NC	NC	5.03
	800X600-50 (53K)		NC	NC	NC	NC	NC	NC	5.03
	1280X1024-85 (92K)		NC	NC	NC	NC	NC	NC	5.03

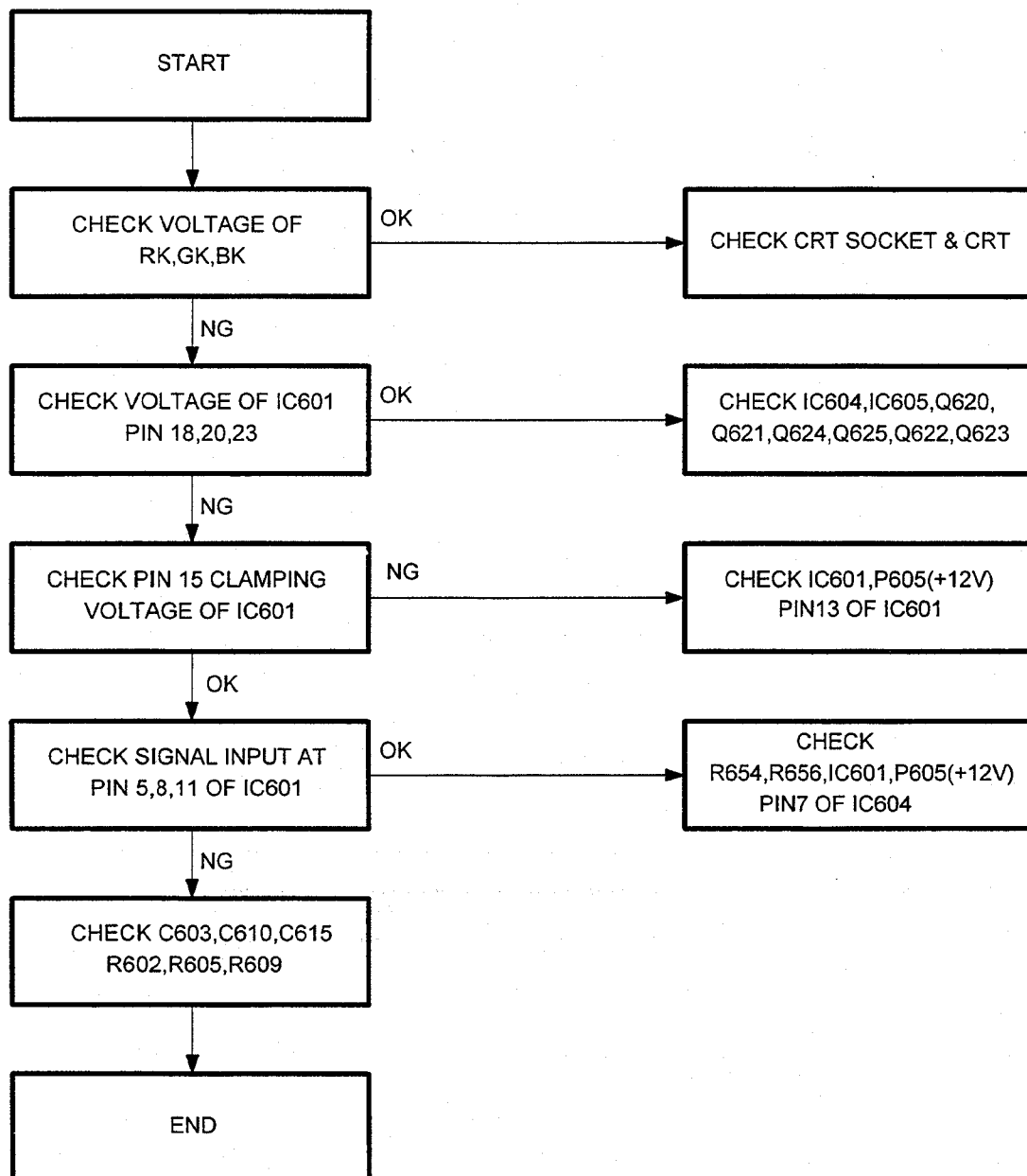
TR		Q501 (A733)			Q504 (A733)			Q505 (C945)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	5.03	5.01	4.36	5.03	0.13	5.00	GND	5.00	0.30
	640X480-85 (43K)	5.03	5.01	4.36	5.03	0.17	5.00	GND	5.00	0.30
	1024X768-85 (69K)	5.03	5.01	4.36	5.03	0.26	5.00	GND	5.00	0.30
1792E/SE	640X480-60 (31K)	5.03	5.01	4.36	5.03	0.11	5.00	GND	5.00	0.19
	800X600-50 (53K)	5.03	5.01	4.36	5.03	0.19	5.00	GND	5.00	0.19
	1280X1024-85 (92K)	5.03	5.01	4.36	5.03	0.33	5.00	GND	5.00	0.19

TR		Q506 (C337)			Q507 (C945)			Q508 (A733)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	9.32	12.05	7.68	0.78	5.03	0.18	0.78	GND	0.18
	640X480-85 (43K)	9.32	12.05	7.68	1.49	5.03	1.06	1.49	GND	1.06
	1024X768-85 (69K)	9.32	12.05	7.68	2.99	5.03	3.05	2.99	GND	3.05
1792E/SE	640X480-60 (31K)	7.37	12.05	9.77	0.74	5.03	0.17	0.75	GND	0.17
	800X600-50 (53K)	7.37	12.05	9.77	2.09	5.03	1.86	2.09	GND	1.86
	1280X1024-85 (92K)	7.37	12.05	9.77	4.39	5.03	4.86	4.36	GND	4.86

TR		Q510 (C327)			Q511 (A733)		
MODE		E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	9.32	GND	9.22	1.96	0.06	3.37
	640X480-85 (43K)	9.32	GND	9.22	1.96	0.06	3.37
	1024X768-85 (69K)	9.32	GND	9.24	1.96	0.06	3.37
1792E/SE	640X480-60 (31K)	7.54	GND	7.37	1.96	0.06	3.37
	800X600-50 (53K)	7.54	GND	7.37	1.96	0.06	3.37
	1280X1024-85 (92K)	7.54	GND	7.38	1.96	0.06	3.37

TR		Q513 (C945)			Q514 (C945)		
MODE		E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	4.69	5.03	4.68	0.24	9.22	0.85
	640X480-85 (43K)	4.68	5.03	4.68	0.24	9.22	0.85
	1024X768-85 (69K)	0.23	5.03	0.22	0.24	9.24	0.85
1792E/SE	640X480-60 (31K)	4.69	5.03	0.59	0.41	7.36	1.02
	800X600-50 (53K)	0.22	5.03	0.30	0.41	7.36	1.02
	1280X1024-85 (92K)	0.22	5.03	0.45	0.41	7.36	1.02

7.4 VIDEO CIRCUIT TROUBLESHOOTING ROUTINE



MODEL: 1769E/SE

TEST CONDITIONS: AC LINE IN:110V/60Hz

TIMING: 640X480-60Hz (31K)

PATTERN: a. Full white b. Cross-hatch

Unit: Volt

IC	IC601 (LM1282)													
PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Full white	0	0	0	0	2.53	12.01	0	2.63	12.01	0	2.52	2.03	2.28	2.00
Cross-hatch	0	0	0	0	2.08	12.01	0	2.08	12.01	0	2.08	2.03	2.38	2.00

IC	IC601 (LM1282)													
PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Full white	3.67	3.58	7.63	2.73	7.65	2.77	0	12.01	2.57	7.53	0.62	2.50	2.56	2.19
Cross-hatch	3.67	3.58	7.66	0.91	7.68	0.94	0	12.01	0.94	7.56	0.62	2.50	2.56	2.19

IC	IC603 (M35043)									
PIN	1	2	3	4	5	6	7	8	9	10
Full white	5.02	GND	5.01	5.01	5.01	0.40	GND	5.02	NC	5.01
Cross-hatch	5.02	GND	5.01	5.02	5.02	0.41	GND	5.02	NC	5.02

IC	IC603 (M35043)									
PIN	11	12	13	14	15	16	17	18	19	20
Full white	GND	0	0	NC	0	NC	0	4.69	4.99	5.02
Cross-hatch	GND	0	0	NC	0	NC	0	4.69	4.99	5.02

IC	IC604 (M62359)								
PIN	1	2	3	4	5	6	7	8	9
Full white	5.02	5.02	26.0	5.51	2.57	5.00	GND	GND	5.02
Cross-hatch	5.02	5.02	0.24	2.51	2.57	5.00	GND	GND	5.02

IC	IC604 (M62359)								
PIN	10	11	12	13	14	15	16	17	18
Full white	5.02	5.02	2.42	2.44	3.34	1.86	NC	5.02	5.02
Cross-hatch	5.02	5.02	2.42	2.44	3.34	1.86	NC	5.02	5.02

IC	IC605 (LM2405)										
PIN	1	2	3	4	5	6	7	8	9	10	11
Full white	44.5	GND	46.5	GND	43.3	76.0	GND	2.71	2.52	10.78	2.67
Cross-hatch	68.4	GND	68.0	GND	67.9	76.0	GND	0.95	0.95	10.58	0.93

TR	Q619 (C945)			Q620 (F423)			Q621 (F422)		
MODE ^{PIN}	E	C	B	E	C	B	E	C	B
Full white	GND	3.59	0	110.7	GND	109.9	2.77	109.8	3.33
Cross-hatch	GND	3.59	0	111.2	GND	110.2	2.76	110.1	3.33

TR	Q622 (F423)			Q623 (F423)			Q624 (F423)		
MODE ^{PIN}	E	C	B	E	C	B	E	C	B
Full white	115.3	GND	114.6	1.86	114.4	2.41	115.7	GND	114.9
Cross-hatch	115.7	GND	114.9	1.85	114.8	2.41	116.0	GND	115.3

TR	Q625 (F422)			Q627 (C945)			Q628 (C945)		
MODE ^{PIN}	E	C	B	E	C	B	E	C	B
Full white	1.87	114.9	2.43	GND	4.69	-0.34	GND	3.67	0
Cross-hatch	1.86	115.2	2.43	GND	4.70	-0.30	GND	3.67	0

TR	Q629 (C945)								
MODE ^{PIN}	E	C	B						
Full white	GND	0	0						
Cross-hatch	GND	0	0						

MODEL: 1792E/SE

TEST CONDITIONS: AC LINE IN:110V/60Hz
 TIMING: 640X480-60Hz (31K)
 PATTERN: a. Full white b. Cross-hatch

Unit: Volt

IC	IC601 (M52737SP)									
PIN MODE	1	2	3	4	5	6	7	8	9	10
Full white	0.02	11.98	2.94	3.14	0.02	GND	11.98	2.94	3.55	0.02
Cross-hatch	0.02	11.98	2.49	3.14	0.02	GND	11.98	2.49	3.55	0.02

IC	IC601 (M52737SP)									
PIN MODE	11	12	13	14	15	16	17	18	19	20
Full white	GND	11.98	2.93	3.44	0.02	GND	3.88	1.08	1.18	0.34
Cross-hatch	GND	11.98	2.49	3.44	0.02	GND	4.23	1.10	1.18	0.35

IC	IC601 (M52737SP)									
PIN MODE	21	22	23	24	25	26	27	28	29	30
Full white	GND	NC	3.86	11.98	2.98	GND	NC	3.86	11.98	3.04
Cross-hatch	GND	NC	3.82	11.98	1.22	GND	NC	3.82	11.98	1.23

IC	IC601 (M52737SP)					
PIN MODE	31	32	33	34	35	36
Full white	GND	NC	3.86	11.98	2.79	2.28
Cross-hatch	GND	NC	3.81	11.98	1.20	2.28

IC	IC603 (M35043)									
PIN MODE	1	2	3	4	5	6	7	8	9	10
Full white	5.01	GND	5.01	5.01	5.01	0.93	GND	5.02	NC	5.01
Cross-hatch	5.01	GND	5.01	5.01	5.02	0.95	GND	5.02	NC	5.01

IC	IC603 (M35043)									
PIN MODE	11	12	13	14	15	16	17	18	19	20
Full white	GND	0.02	0.02	NC	0.02	NC	0.02	4.70	4.98	5.02
Cross-hatch	GND	0.01	0.01	NC	0.01	NC	0.01	4.71	4.99	5.02

IC	IC604 (M62359)								
PIN MODE	1	2	3	4	5	6	7	8	9
Full white	5.01	5.01	0.77	4.25	4.45	3.69	5.01	GND	GND
Cross-hatch	5.01	5.01	0.78	4.26	4.45	3.69	5.01	GND	GND

IC	IC604 (M35043)								
PIN	10	11	12	13	14	15	16	17	18
MODE									
Full white	5.02	5.02	1.59	1.23	2.27	3.76	0.01	5.02	5.02
Cross-hatch	5.02	5.02	1.59	1.24	2.27	3.77	0.01	5.02	5.02

IC	IC605 (LM2405)										
PIN	1	2	3	4	5	6	7	8	9	10	11
MODE											
Full white	40.98	GND	43.41	GND	39.64	75.52	GND	2.95	2.71	10.86	2.89
Cross-hatch	64.51	GND	64.72	GND	64.23	75.49	GND	1.22	1.19	10.69	1.21

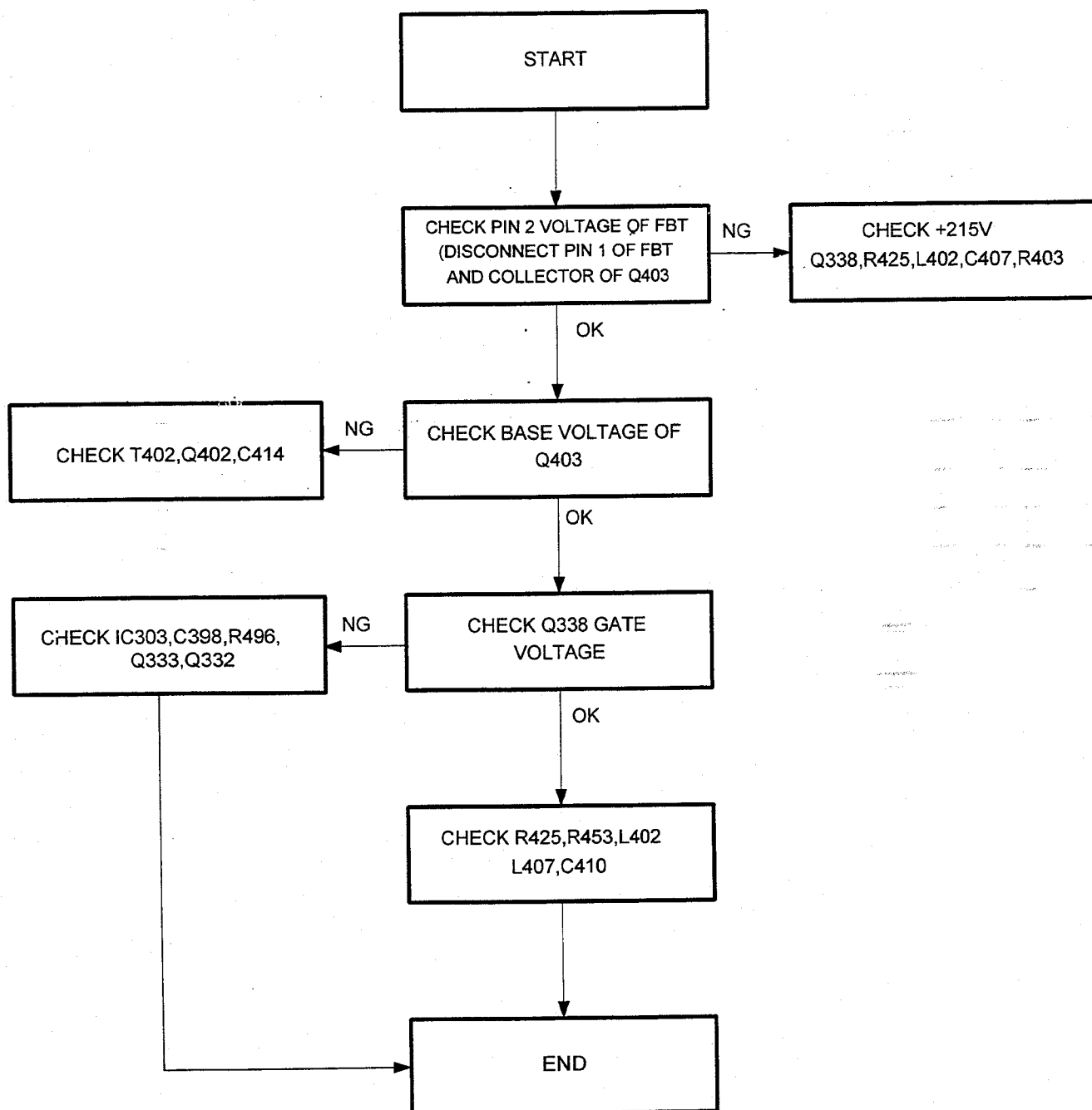
TR	Q603 (C945)			Q606 (C945)			Q620 (F423)		
PIN	E	C	B	E	C	B	E	C	B
MODE									
Full white	3.44	5.02	4.05	GND	110.6	0	116.2	GND	115.5
Cross-hatch	3.44	5.02	4.05	GND	0.13	0	117.3	GND	116.4

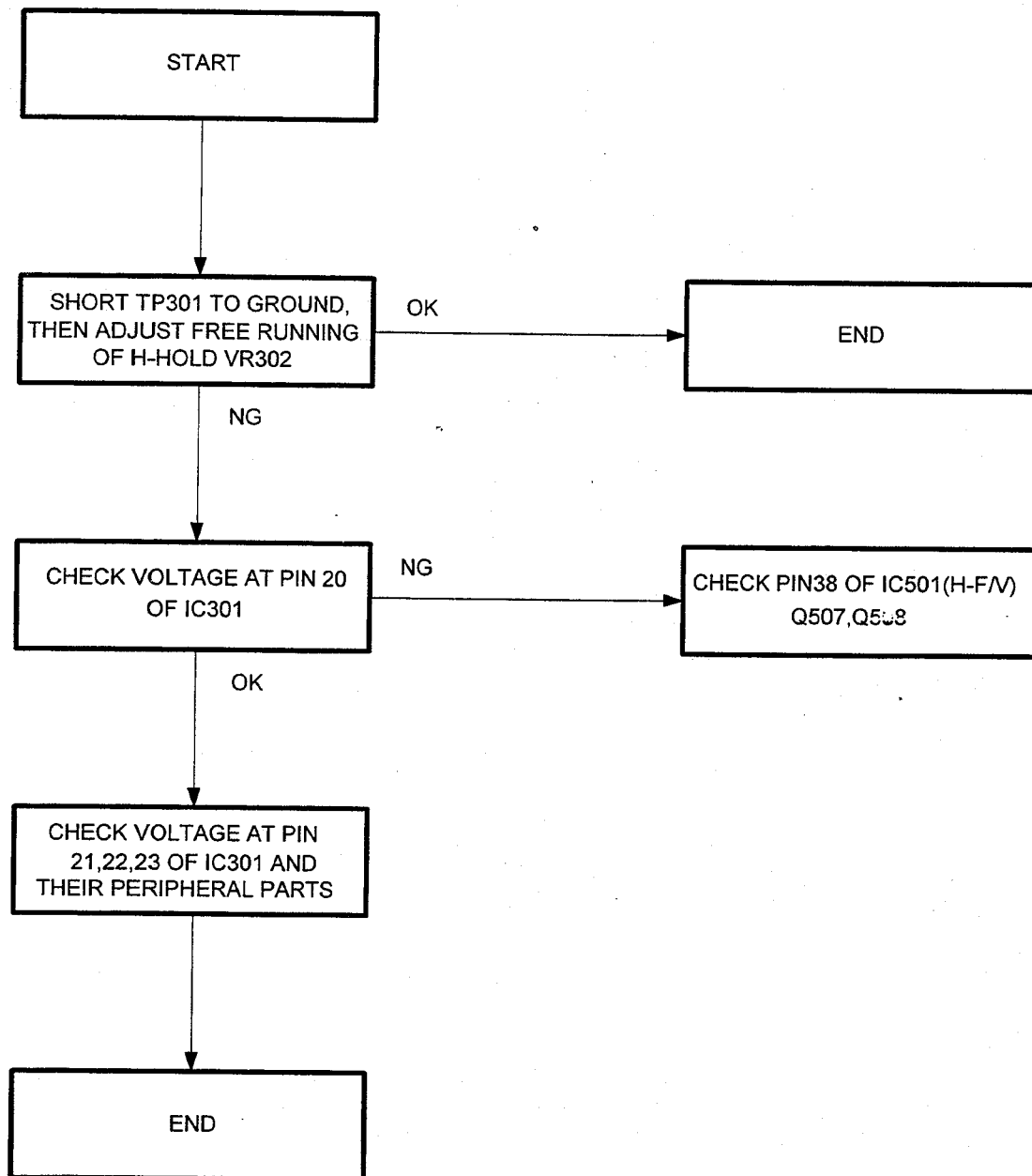
TR	Q621 (F422)			Q622 (F423)			Q623 (F422)		
PIN	E	C	B	E	C	B	E	C	B
MODE									
Full white	1.68	115.6	2.27	120.3	GND	119.5	1.01	119.5	1.59
Cross-hatch	1.68	116.3	2.27	121.3	GND	120.4	1.00	120.3	1.59

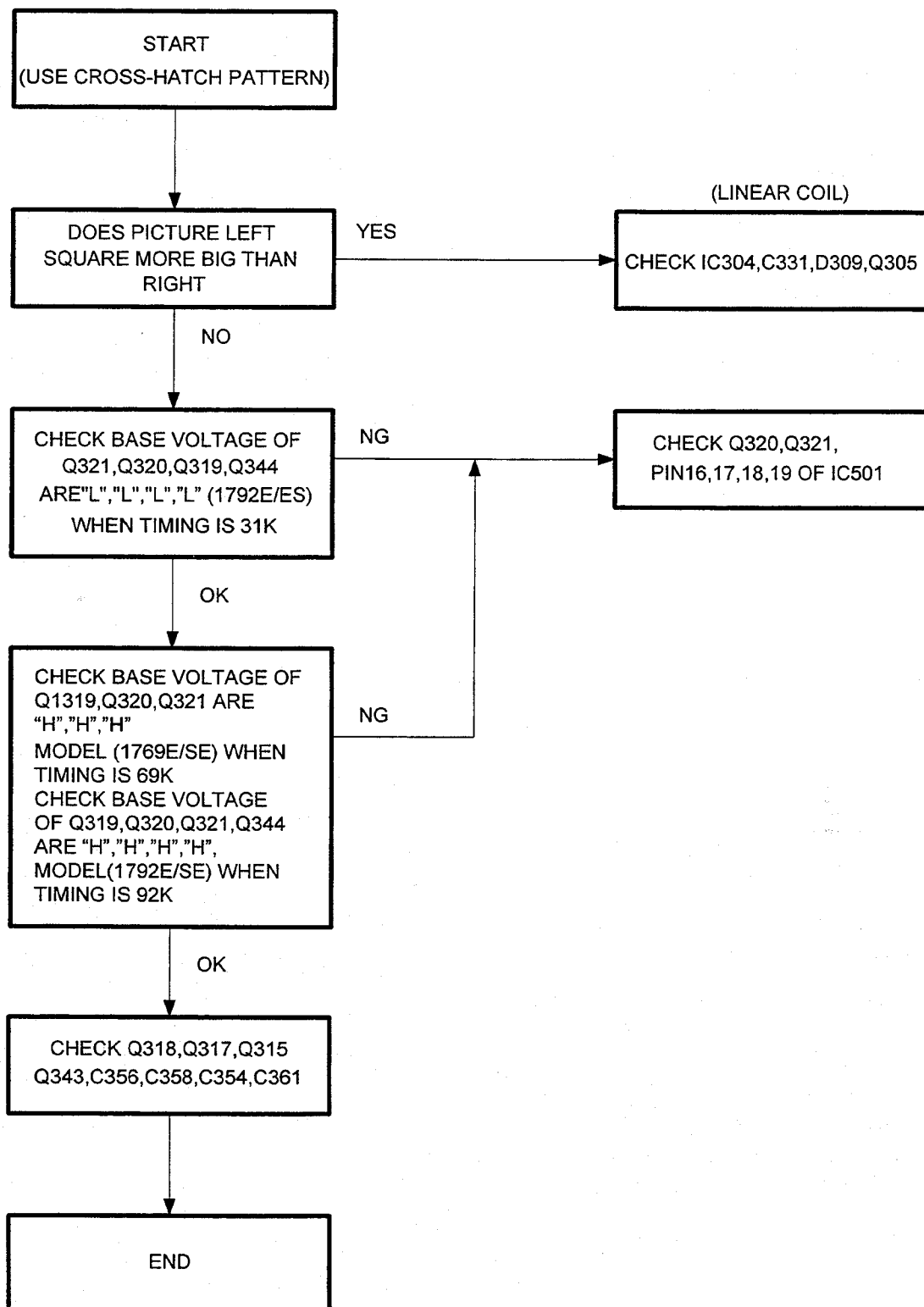
TR	Q624 (F423)			Q625 (F422)			Q627 (C945)		
PIN	E	C	B	E	C	B	E	C	B
MODE									
Full white	122.5	GND	121.7	0.66	121.8	1.23	GND	4.70	0.24
Cross-hatch	123.5	GND	122.6	0.65	122.4	1.23	GND	4.71	0.24

7.5 DEFLECTION CIRCUIT TROUBLESHOOTING ROUTINE

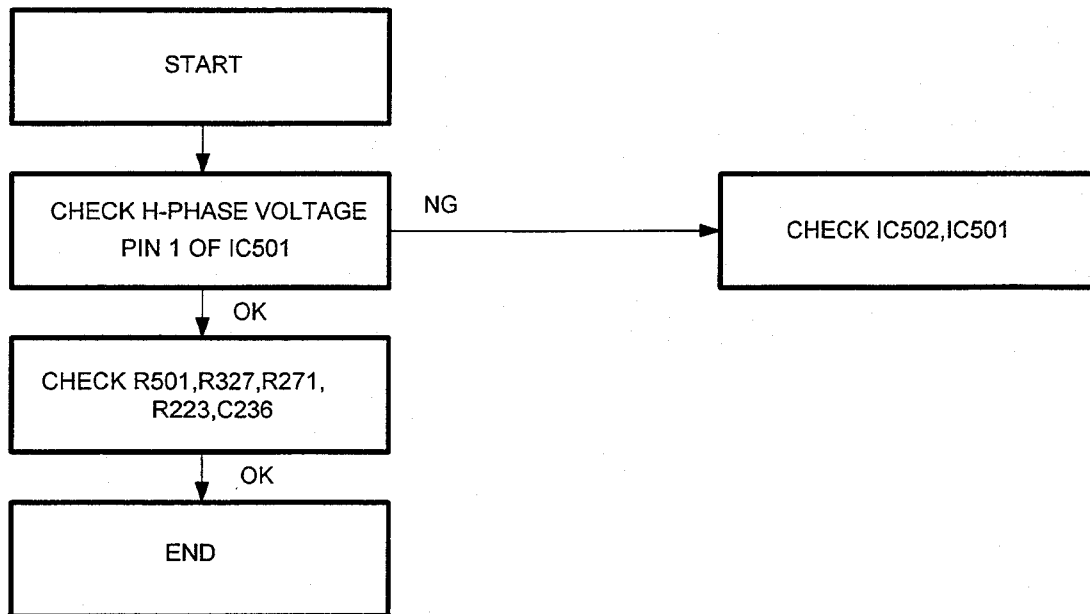
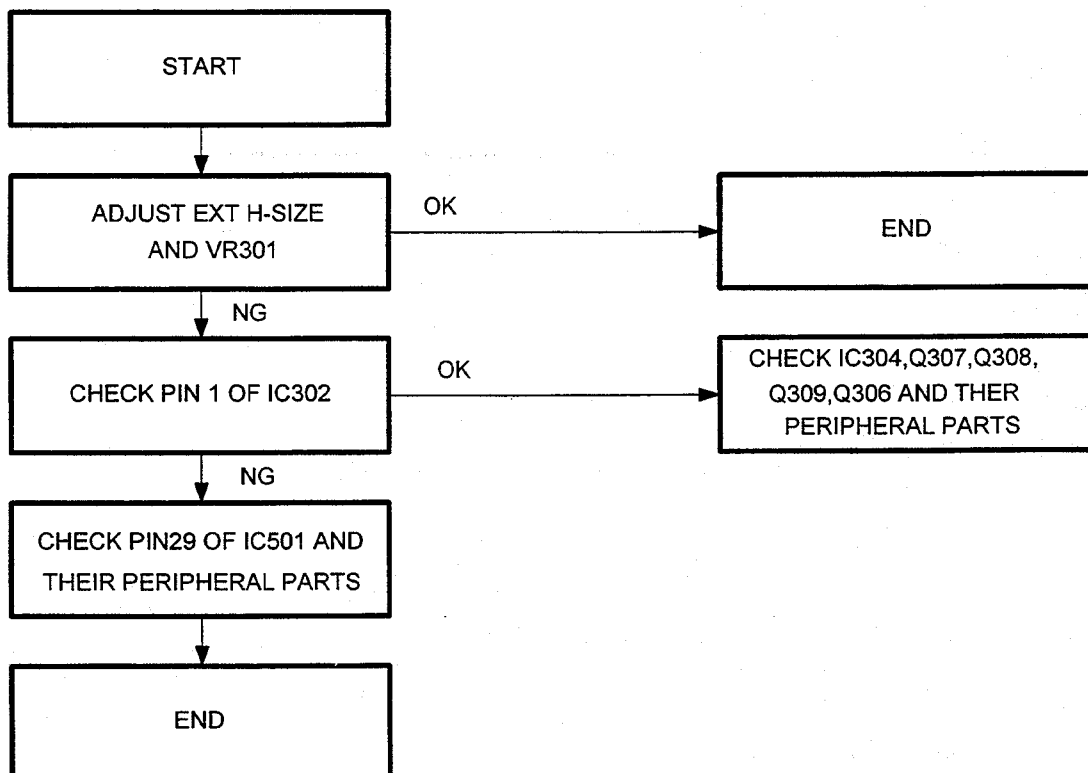
7.5.1 Horizontal Deflection Circuit

No Raster

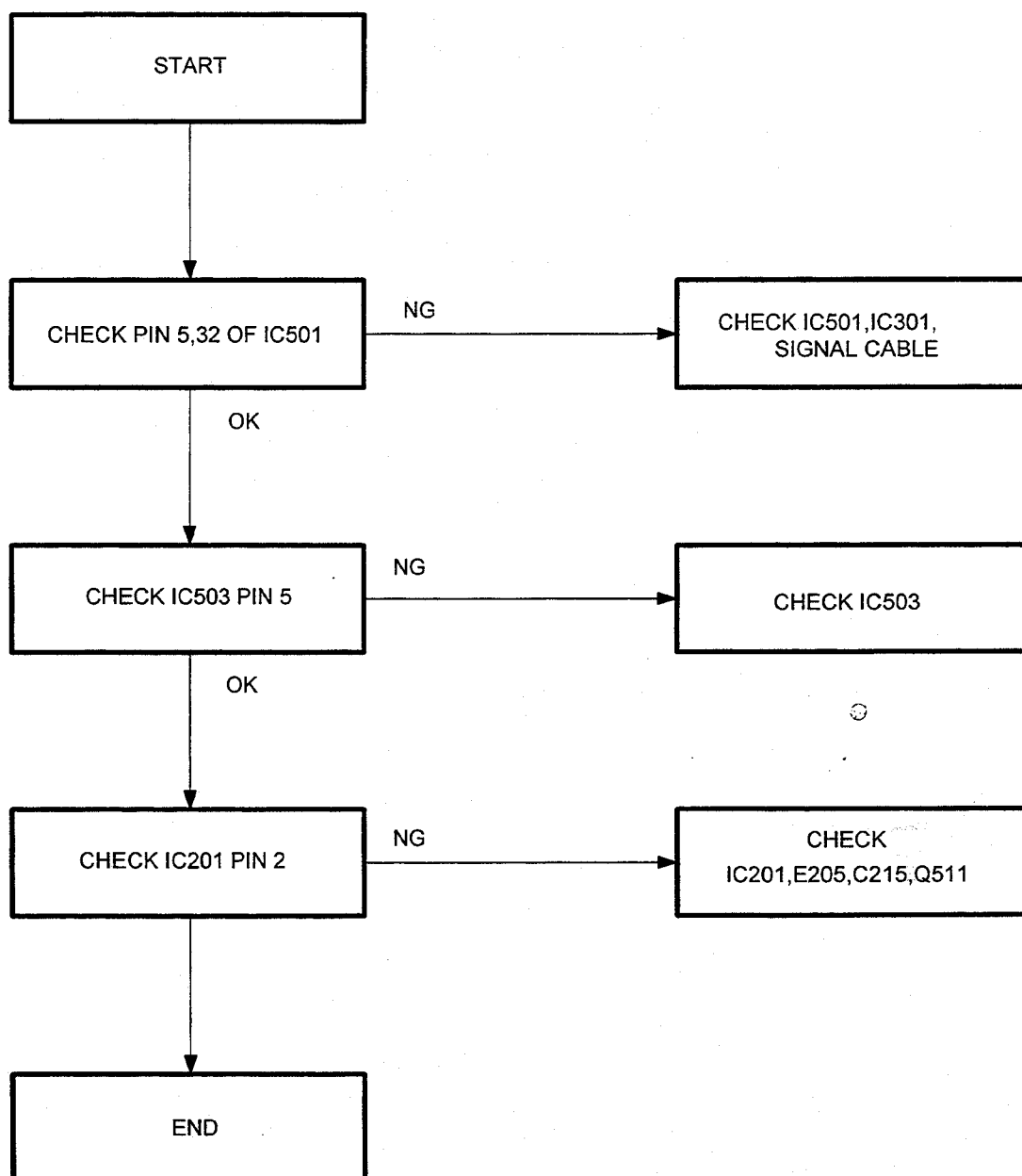
H-Asynchronous

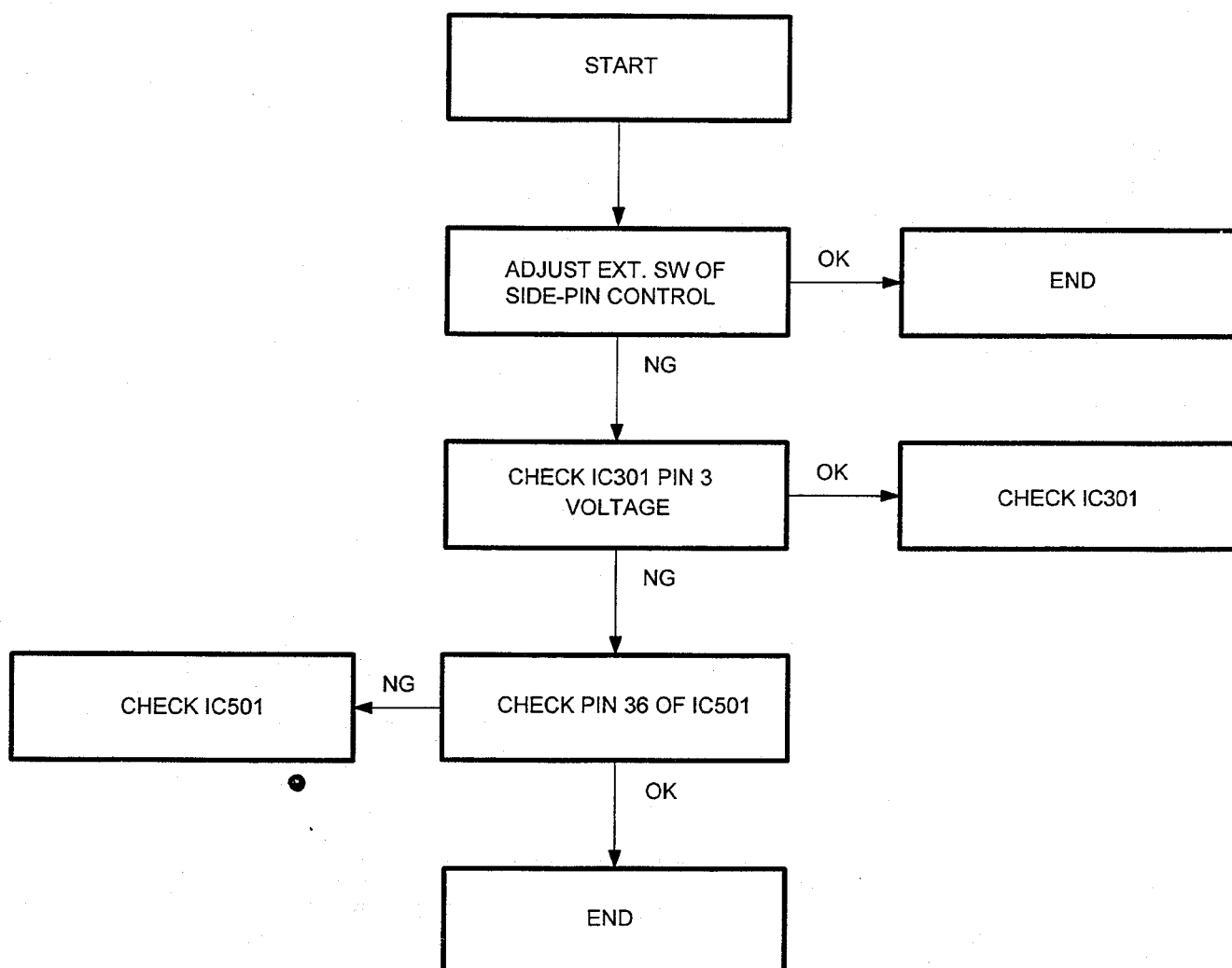
Linearity

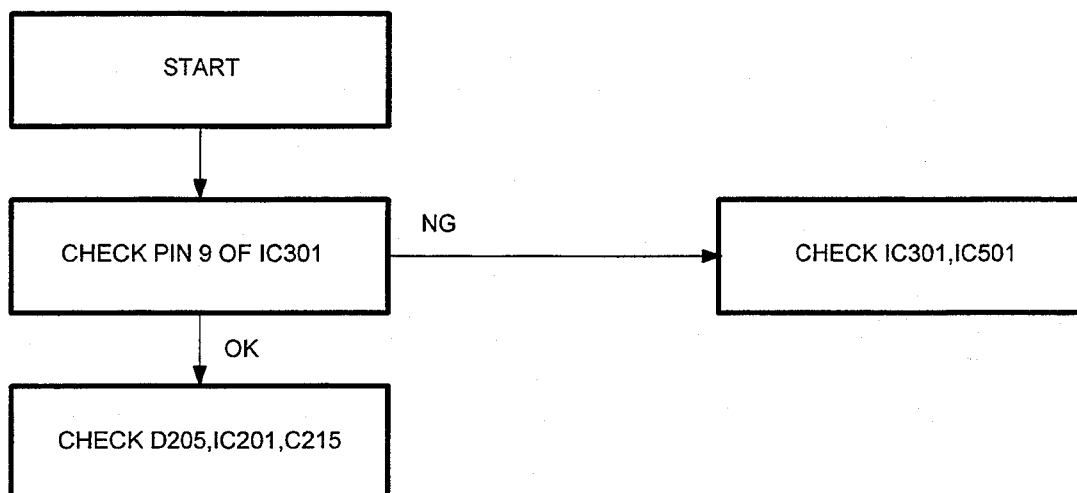
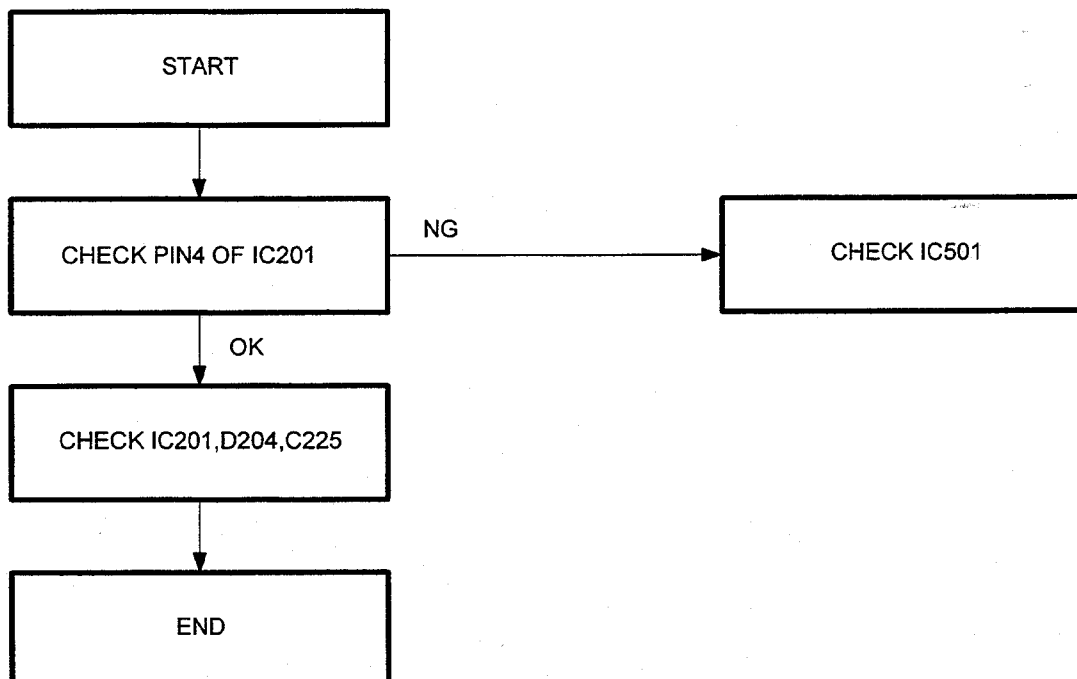
REMARK: 1. "L" means the voltage between gate and source is $< 4V$ which can't turn on the MOSFET.
 2. "H" means the voltage between gate and source is $\geq 4V$ which can turn on the MOSFET.

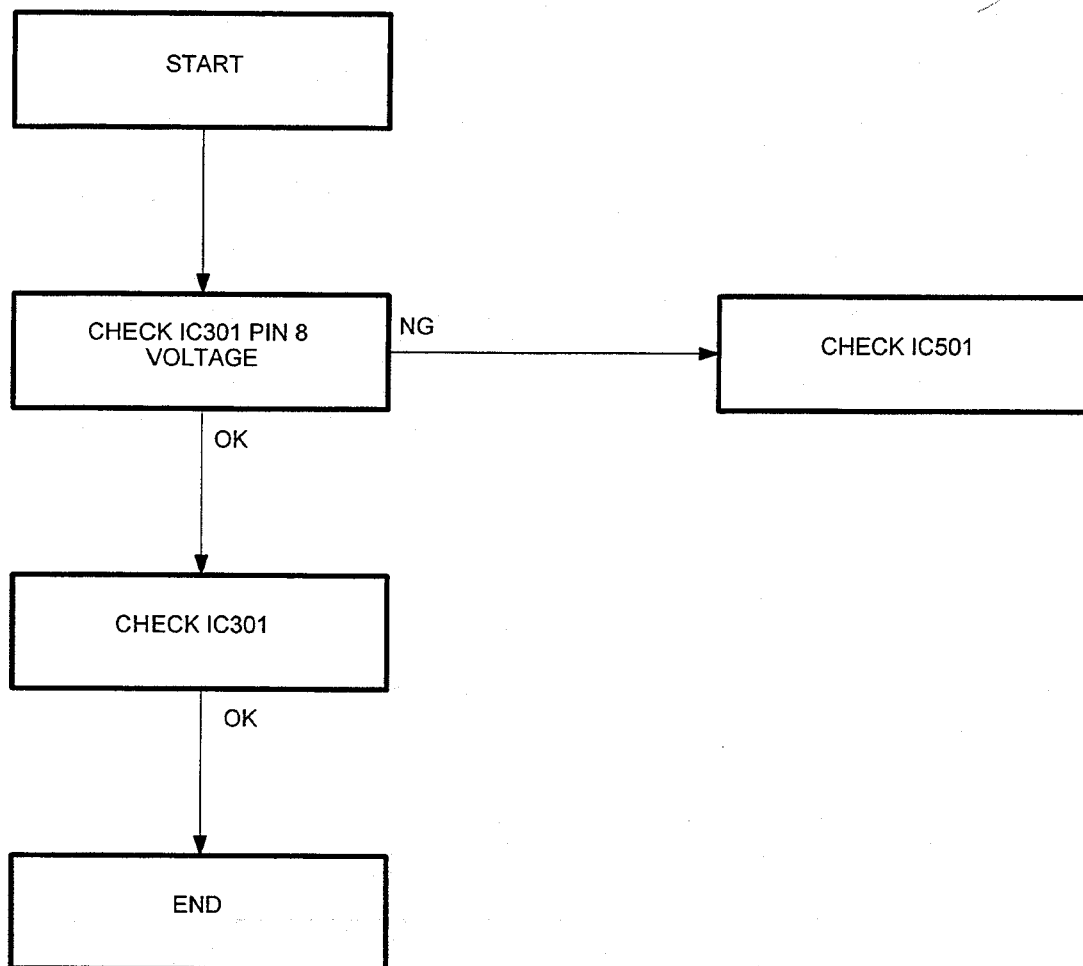
Out of phaseWidth Abnormal

7.5.2 Vertical Deflection Circuit

No vertical scan

Side pin distortion

V-AsynchronousVertical position

Vertical Size

TEST CONDITIONS: AC LINE IN: 110V/60Hz
 PATTERN: CROSS HATCH
 STATUS: NORMAL

Unit: Volt

IC		IC301 (UPC1883)										
MODE		PIN	1	2	3	4	5	6	7	8	9	10
MODEL												
1769E/SE	640X480-60 (31K)	2.32	2.54	1.85	2.41	2.53	4.14	3.09	2.32	3.53	3.58	
	640X480-85 (43K)	2.32	2.52	2.14	2.45	2.48	4.14	3.22	2.36	2.53	3.60	
	1024X768-85 (69K)	2.32	2.56	2.78	2.47	2.47	4.14	3.22	2.37	3.53	3.64	
1792E/SE	640X480-60 (31K)	2.49	2.51	1.71	2.41	2.53	4.10	3.25	2.25	3.50	3.56	
	800X600-50 (53K)	2.49	2.52	2.11	2.43	2.50	4.10	3.19	2.29	3.50	3.58	
	1280X1024-85 (92K)	2.49	2.59	2.74	2.46	2.43	4.10	3.19	2.30	3.50	3.61	

IC		IC301 (UPC1883)									
PIN											
MODEL	MODE	11	12	13	14	15	16	17	18	19	20
1769E/SE	640X480-60 (31K)	3.48	2.66	2.41	5.01	GND	9.13	0.59	4.39	1.40	1.39
	640X480-85 (43K)	3.48	2.66	2.41	5.01	GND	9.13	0.90	4.49	1.95	1.95
	1024X768-85 (69K)	3.48	2.66	2.41	5.01	GND	9.13	0.54	4.72	3.13	3.13
1792E/SE	640X480-60 (31K)	3.47	2.63	2.38	4.97	GND	9.10	0.52	4.35	1.38	1.38
	800X600-50 (53K)	3.47	2.63	2.38	4.97	GND	9.10	1.06	4.55	2.41	2.42
	1280X1024-85 (92K)	3.46	2.63	2.38	4.97	GND	9.10	1.87	4.94	4.20	4.19

IC		IC301 (UPC1883)									
PIN											
MODEL	MODE	21	22	23	24	25	26	27	28	29	30
1769E/SE	640X480-60 (31K)	1.96	8.30	8.02	3.47	2.43	0.60	3.65	2.47	3.59	GND
	640X480-85 (43K)	2.21	8.29	8.08	3.51	2.30	0.29	3.65	2.47	3.63	GND
	1024X768-85 (69K)	2.73	8.28	8.19	3.51	2.17	0.35	3.65	4.47	3.63	GND
1792E/SE	640X480-60 (31K)	1.87	8.25	7.99	3.44	2.44	0.59	3.62	2.44	3.43	GND
	800X600-50 (53K)	2.29	8.24	8.09	3.52	2.33	0.30	3.62	2.44	3.45	GND
	1280X1024-85 (92K)	3.00	8.22	8.25	3.66	2.11	0.45	3.62	2.45	3.47	GND

IC		IC302 (LM358)								
MODE		PIN	1	2	3	4	5	6	7	8
MODEL										
1769E/SE	640X480-60 (31K)		7.01	6.10	6.10	GND	9.78	9.78	9.78	15.4
	640X480-85 (43K)		7.66	6.11	6.10	GND	9.62	9.62	9.62	15.4
	1024X768-85 (69K)		8.30	6.11	6.11	GND	9.31	9.31	9.31	15.4
1792E/SE	640X480-60 (31K)		5.73	6.01	6.00	GND	9.31	9.30	9.30	15.5
	800X600-50 (53K)		6.54	6.01	6.00	GND	9.17	9.16	9.16	15.5
	1280X1024-85 (92K)		6.80	6.01	6.00	GND	8.43	8.42	8.42	15.5

IC		IC303 (3843)								
MODE		PIN	1	2	3	4	5	6	7	8
MODEL										
1769E/SE	640X480-60 (31K)		1.33	2.50	0.88	2.13	GND	2.28	11.30	5.01
	640X480-85 (43K)		1.44	2.50	0.58	2.46	GND	3.25	11.30	5.01
	1024X768-85 (69K)		1.80	2.50	0.61	2.31	GND	5.93	11.28	5.01
1792E/SE	640X480-60 (31K)		1.17	2.48	0.41	2.18	GND	2.11	11.27	4.97
	800X600-50 (53K)		1.45	2.48	0.39	2.04	GND	3.83	11.25	4.7
	1280X1024-85 (92K)		1.71	2.48	0.52	1.94	GND	7.91	11.22	4.97

IC		IC304 (2903D)								
MODE		PIN	1	2	3	4	5	6	7	8
MODEL										
1769E/SE	640X480-60 (31K)		0.35	9.70	3.32	GND	9.71	7.03	10.60	15.3
	640X480-85 (43K)		0.51	8.86	3.34	GND	8.82	7.53	9.10	15.3
	1024X768-85 (69K)		0.94	6.96	3.35	GND	6.82	8.08	5.53	15.3
1792E/SE	640X480-60 (31K)		0.34	4.81	3.33	GND	9.81	5.91	11.56	15.4
	800X600-50 (53K)		0.65	8.23	3.34	GND	8.21	6.52	9.10	15.4
	1280X1024-85 (92K)		1.48	5.16	3.36	GND	5.13	6.59	5.04	15.4

IC		IC201 (LA7840)							
MODE		PIN	1	2	3	4	5	6	7
MODEL									
1769E/SE	640X480-60 (31K)		-12.0	-0.06	14.71	1.37	1.37	15.1	-10.9
	640X480-85 (43K)		-12.0	-0.12	14.90	1.37	1.37	15.2	-10.7
	1024X768-85 (69K)		-12.0	-0.12	14.97	1.37	1.37	15.3	-10.7
1792E/SE	640X480-60 (31K)		-11.89	-0.02	14.83	1.37	1.37	15.26	-10.73
	800X600-50 (53K)		-11.90	-0.04	15.02	1.37	1.37	15.33	-10.55
	1280X1024-85 (92K)		-11.94	-0.05	15.07	1.37	1.37	15.38	-10.61

TR		Q208 (C945)			Q302 (A733)			Q303 (C945)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	GND	13.94	-0.20	5.60	GND	4.98	3.98	15.30	4.36
	640X480-85 (43K)	GND	13.56	-0.21	5.60	GND	4.98	4.09	15.30	4.46
	1024X768-85 (69K)	GND	12.62	-0.19	5.60	GND	4.98	4.33	15.30	4.70
1792E/SE	640X480-60 (31K)	GND	14.21	-0.11	5.60	GND	4.98	3.98	15.30	4.32
	800X600-50 (53K)	GND	13.45	-0.94	5.60	GND	4.98	4.14	15.30	4.53
	1280X1024-85 (92K)	GND	12.28	-0.83	5.60	GND	4.98	4.54	15.30	4.92

TR		Q304 (A733)			Q305 (JC337)			Q306 (J449)		
MODE		E	C	B	E	C	B	G	D	S
1769E/SE	640X480-60 (31K)	3.98	GND	4.36	GND	6.72	-1.19	213.2	215.8	60.0
	640X480-85 (43K)	4.09	GND	4.46	GND	6.50	-1.46	211.9	215.8	83.4
	1024X768-85 (69K)	4.33	GND	4.70	GND	5.97	-1.82	208.9	215.8	139.5
1792E/SE	640X480-60 (31K)	3.98	GND	4.32	GND	6.77	-1.15	212.7	214.8	42.9
	800X600-50 (53K)	4.14	GND	4.53	GND	6.33	-1.58	210.7	214.8	77.4
	1280X1024-85 (92K)	4.54	GND	4.92	GND	5.53	-1.99	207.4	214.8	149.5

TR		Q307 (C945)			Q308 (A733)			Q309 (A733)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	10.40	15.30	10.57	10.40	GND	10.57	7.76	GND	10.38
	640X480-85 (43K)	9.05	15.30	9.04	9.05	GND	9.04	7.78	GND	10.35
	1024X768-85 (69K)	5.75	15.30	5.42	5.75	GND	5.42	8.12	GND	10.25
1792E/SE	640X480-60 (31K)	11.38	15.33	11.62	5.45	GND	11.62	6.69	GND	10.38
	800X600-50 (53K)	9.16	15.30	9.15	11.38	GND	9.16	6.85	GND	10.33
	1280X1024-85 (92K)	5.44	15.30	5.08	9.16	GND	5.09	6.71	GND	8.99

TR		Q310 (A733)			Q311 (C945)			Q312 (C945)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	13.83	9.71	13.30	10.38	15.30	10.99	GND	9.71	-0.24
	640X480-85 (43K)	13.89	8.86	13.30	10.35	15.30	10.96	GND	8.86	-0.33
	1024X768-85 (69K)	13.96	6.92	13.30	10.25	15.30	10.86	GND	6.92	-0.51
1792E/SE	640X480-60 (31K)	13.86	9.81	13.30	10.38	15.30	11.01	GND	9.81	-0.34
	800X600-50 (53K)	13.85	8.25	13.30	10.34	15.30	10.96	GND	8.25	-0.51
	1280X1024-85 (92K)	13.89	5.23	13.30	8.98	15.30	9.60	GND	5.23	-0.77

TR		Q313 (C4924)			Q314 (N254)			Q315 (IRF630)		
MODE		E	C	B	G	D	S	G	D	S
MODEL	PIN									
1769E/SE	640X480-60 (31K)	GND	28.46	-0.68	3.93	57.24	GND	15.33	0.05	GND
	640X480-85 (43K)	GND	39.45	-0.69	4.04	55.22	GND	0.25	35.83	GND
	1024X768-85 (69K)	GND	66.54	-0.71	4.29	51.25	GND	0.26	43.06	GND
1792E/SE	640X480-60 (31K)	GND	23.06	-0.52	3.94	49.24	GND	15.50	-0.05	GND
	800X600-50 (53K)	GND	40.74	-0.50	4.15	44.66	GND	0.16	27.70	GND
	1280X1024-85 (92K)	GND	79.96	-0.49	4.56	38.06	GND	0.18	46.86	GND

TR		Q316 (C945)			Q317 (IRF630)(K2136)			Q318 (K2136)		
MODE		PIN								
MODEL		E	C	B	G	D	S	G	D	S
1769E/SE	640X480-60 (31K)	4.97	9.12	5.63	15.33	0.03	GND	15.18	0.05	GND
	640X480-85 (43K)	4.97	9.12	5.63	15.38	0.11	GND	0.26	35.96	GND
	1024X768-85 (69K)	4.97	9.11	5.63	0.26	43.24	GND	0.27	43.28	GND
1792E/SE	640X480-60 (31K)	4.94	9.14	5.60	15.50	-0.05	GND	15.42	-0.04	GND
	800X600-50 (53K)	4.94	9.14	5.60	0.16	27.90	GND	15.49	-0.02	GND
	1280X1024-85 (92K)	4.94	9.12	5.60	0.18	47.10	GND	0.17	47.23	GND

TR		Q319 (C945)			Q320 (C945)			Q321 (C945)		
MODE		E	C	B	E	C	B	E	C	B
MODEL	PIN									
1769E/SE	640X480-60 (31K)	GND	15.30	0.09	GND	15.30	0.09	GND	15.23	0.10
	640X480-85 (43K)	GND	0.25	0.68	GND	15.38	0.09	GND	0.26	0.68
	1024X768-85 (69K)	GND	0.26	0.69	GND	0.26	0.68	GND	0.27	0.69
1792E/SE	640X480-60 (31K)	GND	15.51	0	GND	15.51	-0.01	GND	15.50	0
	800X600-50 (53K)	GND	0.16	0.68	GND	0.16	0.68	GND	15.55	0
	1280X1024-85 (92K)	GND	0.18	0.68	GND	0.18	0.68	GND	0.17	0.68

TR		Q322 (C945)			Q323 (A733)			Q324 (C945)		
MODE		E	C	B	E	C	B	E	C	B
MODEL	PIN									
1769E/SE	640X480-60 (31K)	1.04	5.03	1.17	3.97	GND	3.96	3.97	12.07	3.96
	640X480-85 (43K)	1.27	5.03	1.79	4.07	GND	4.07	4.07	12.07	4.07
	1024X768-85 (69K)	2.51	5.03	3.10	4.28	GND	4.31	4.28	12.07	4.31
1792E/SE	640X480-60 (31K)	0.96	5.03	1.16	3.93	GND	3.91	3.93	12.03	3.91
	800X600-50 (53K)	1.73	5.03	2.32	4.11	GND	4.13	4.11	12.03	4.13
	1280X1024-85 (92K)	3.68	5.03	4.31	4.45	GND	4.53	4.45	12.03	4.53

TR		Q332 (A945)			Q333 (A733)			Q338 (K1377)		
MODE		E	C	B	E	C	B	G	D	S
1769E/SE	640X480-60 (31K)	2.52	11.26	3.09	3.09	GND	2.49	2.27	165.7	0.31
	640X480-85 (43K)	2.52	11.26	3.09	3.09	GND	2.49	3.25	143.4	0.35
	1024X768-85 (69K)	2.51	11.26	3.09	3.09	GND	2.49	5.87	72.4	72.4
1792E/SE	640X480-60 (31K)	2.49	11.21	3.07	3.06	GND	2.47	2.12	168.1	0.22
	800X600-50 (53K)	2.49	11.19	3.07	3.06	GND	2.47	3.84	128.4	0.25
	1280X1024-85 (92K)	2.49	11.16	3.06	3.06	GND	2.47	7.94	29.30	0.37

TR		Q339 (C945)			Q340 (C945)			Q341 (C945)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	GND	13.94	-0.12	GND	10.83	0.06	13.67	15.40	13.94
	640X480-85 (43K)	GND	13.56	-0.16	GND	10.96	0.05	13.23	15.40	13.56
	1024X768-85 (69K)	GND	12.62	-0.26	GND	10.94	0.03	12.45	15.40	12.62
1792E/SE	640X480-60 (31K)	GND	14.22	-0.10	GND	11.02	0.03	13.96	15.53	14.22
	800X600-50 (53K)	GND	13.46	-1.09	GND	11.06	0.02	13.23	15.58	13.46
	1280X1024-85 (92K)	GND	12.26	-0.18	GND	11.10	0.02	12.13	15.63	12.28

TR		Q342 (A733)			Q343 (K2136)			Q344 (C945)		
MODE		E	C	B	G	D	S	E	C	B
1769E/SE	640X480-60 (31K)	13.67	GND	13.94						
	640X480-85 (43K)	13.23	GND	13.56						
	1024X768-85 (69K)	12.45	GND	12.62						
1792E/SE	640X480-60 (31K)	13.97	GND	14.22	15.50	-0.04	GND	GND	15.51	0
	800X600-50 (53K)	13.23	GND	13.45	0.17	28.07	GND	GND	0.17	0.68
	1280X1024-85 (92K)	12.13	GND	12.28	0.18	47.26	GND	GND	0.18	0.68

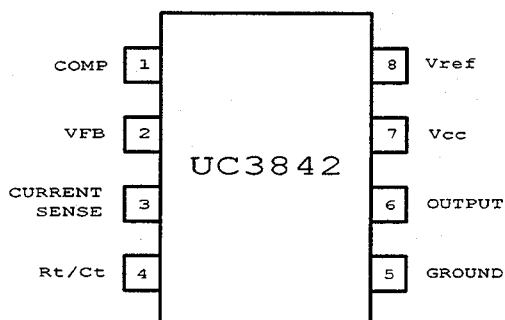
TR		Q401 (F483)			Q402 (F483)			Q403 (C5296)		
MODE		E	C	B	E	C	B	E	C	B
1769E/SE	640X480-60 (31K)	-88.1	-16.6	-96.6	0.69	134.2	1.25	166.2	215.8	165.8
	640X480-85 (43K)	-88.1	-16.5	-96.7	0.68	142.2	1.25	143.7	215.8	143.4
	1024X768-85 (69K)	-87.8	-16.5	-96.4	0.68	155.3	1.25	85.6	215.7	85.5
1792E/SE	640X480-60 (31K)	-83.7	-12.32	-92.39	0.67	95.42	1.15	168.4	214.5	168.6
	800X600-50 (53K)	-83.7	-12.48	-92.41	0.68	135.6	1.20	128.5	214.3	128.7
	1280X1024-85 (92K)	-83.5	-12.80	-92.18	0.68	149.2	1.20	38.81	213.8	39.08

TR		Q404 (C337)			Q405 (F488)			Q414 (C945)		
MODE		E	C	B	E	C	B	E	C	B
PIN										
MODEL										
1769E/SE	640X480-60 (31K)	GND	11.54	-1.63	2.70	-14.8	2.09	GND	2.40	0.10
	640X480-85 (43K)	GND	10.84	-1.87	2.70	-14.6	2.09	GND	2.30	0.11
	1024X768-85 (69K)	GND	9.55	-2.09	2.71	-14.0	2.09	GND	2.19	0.11
1792E/SE	640X480-60 (31K)	GND	4.75	-1.70	2.66	-10.84	2.04	GND	4.24	0
	800X600-50 (53K)	GND	8.13	-2.07	2.66	-10.60	2.04	GND	4.01	0
	1280X1024-85 (92K)	GND	4.92	-2.20	2.66	-10.13	2.04	GND	3.91	0

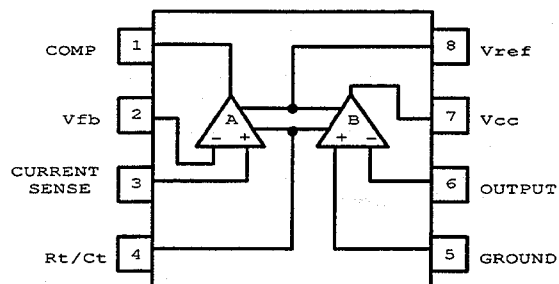
TR		Q415 (BF488)			Q420 (C945)			Q421 (A733)		
MODE		E	C	B	E	C	B	E	C	B
MODEL	PIN									
1769E/SE	640X480-60 (31K)	12.0	-179.7	12.0	GND	4.28	0.29	4.36	0.29	4.28
	640X480-85 (43K)	12.0	-179.7	12.0	GND	4.36	0.29	4.46	0.29	4.36
	1024X768-85 (69K)	12.0	-175.0	12.0	GND	4.54	0.29	4.70	0.29	4.54
1792E/SE	640X480-60 (31K)	12.03	-95.0	11.47	GND	4.26	0.20	4.33	0.20	4.26
	800X600-50 (53K)	12.03	-92.5	11.49	GND	4.42	0.21	4.54	0.21	4.42
	1280X1024-85 (92K)	12.03	-87.0	11.53	GND	4.73	0.21	4.93	0.21	4.73

8.0 IC CONFIGURATION

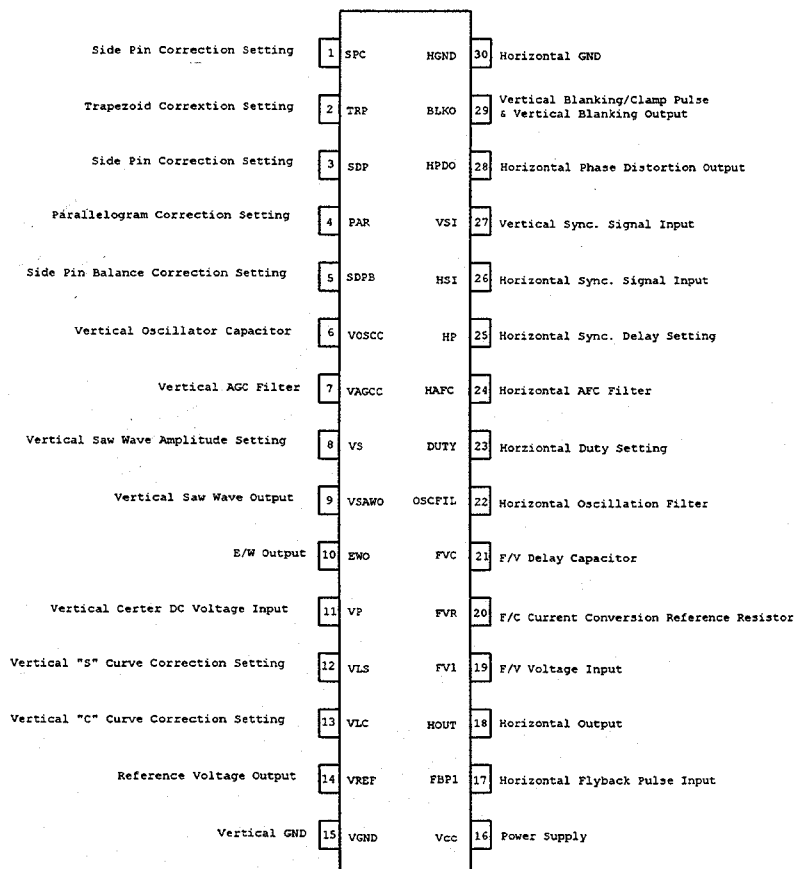
(1) 3842,3843 (IC101,IC303)



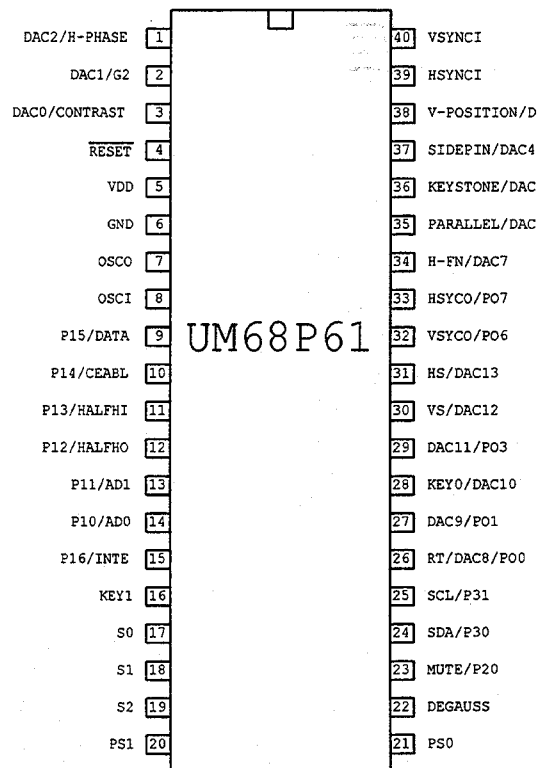
(2) LM358,2903D (IC302,IC304)



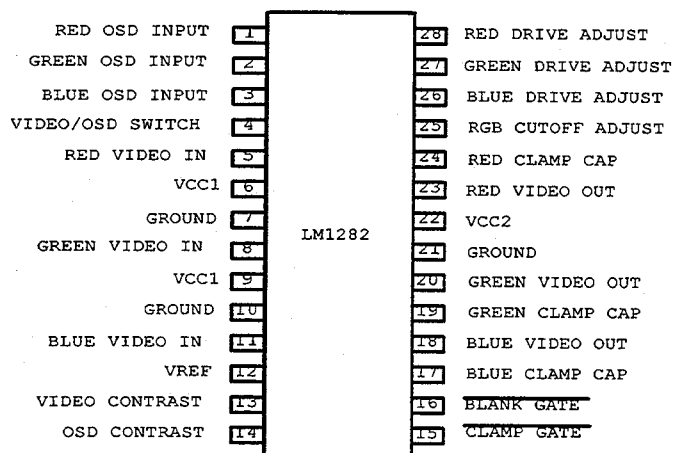
(3) UPC1883 (IC301)



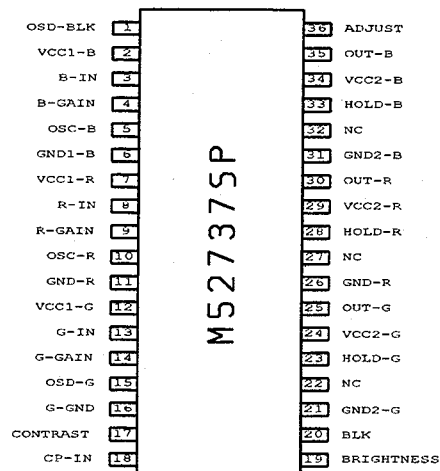
(4) UM68P61 (IC501)



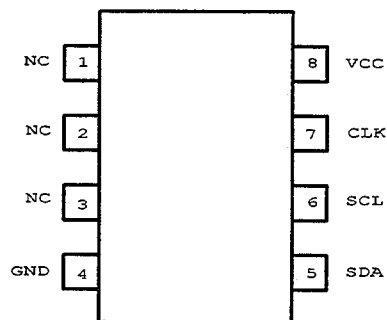
(5) LM1282 (IC601) for 1769



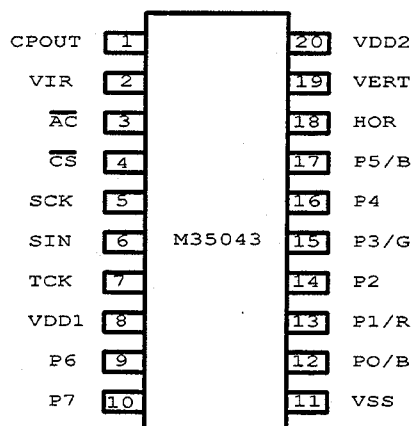
M52737SP (IC601) for 1792



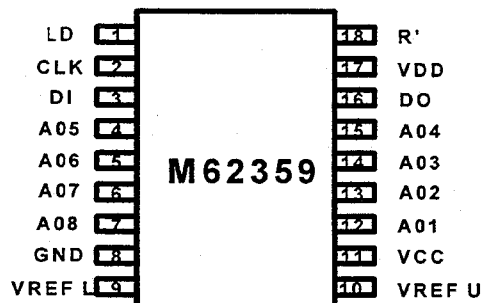
(6) 24C21 (IC602)



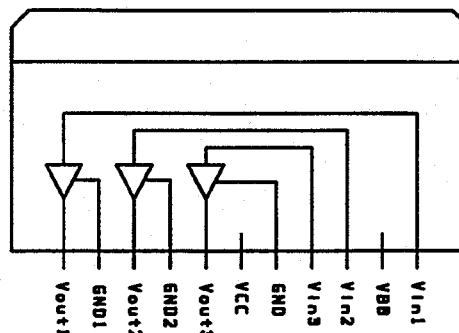
(7) M35043 (IC603)



(8) M62359 (IC604)



(9) LM2405 (IC605)



9.0 PARTS LIST

1769E/SE Parts List

Abbreviations : Capacitors EL: Electrolytic Aluminum, TA: Tantalum, CE: Ceramic
 PP: Polypropylene, PEI: Polyster (Inductive),
 PEN: Polyster (Non-Inductive) PPS: Serial Poly Propylene,
 MPE: Polyster Metalized, MPP: Polypropylene Metalized.
 Resistors..... CF: Carbon Film, MF: Metal Film, VR: Variable Resistor.
 MOF: Metal Oxide Film, POT: Potentiometer
 Semiconductor... TR: Transistor, DI: Diode, ZD: Zener Diode, IC: IC.

Remark: ●: 1st priority , Recommended Q'ty = (Location Number x3)
 ⊙: 2nd priority, Recommended Q'ty = (Location Number x2)
 !: New parts

Location	Part No.	Description	Location	Part No.	Description
TRANSISTOR			Q314	14K92-041E	TR MOS FET BSN254
⊙ Q101	14T92-011E	TR SCR BT169D	● Q315	14K22-110W	TR MOS FET 630/890
Q102	14C92-111B	TR NPN 2SC945P/Q	Q316	14C92-111B	TR NPN 2SC945P/Q
Q103	14C92-111B	TR NPN 2SC945P/Q	● Q317	14K22-110W	TR MOS FET 630/890
! Q104	14K3P-070SU	TR MOS FET FS10SM-16A	Q318	14K22-300B	TR MOS FET 2SK2136
Q105	14A92-021B	TR PNP 2SA733P/Q	Q319	14C92-111B	TR NPN 2SC945P/Q
Q106	14C92-111B	TR NPN 2SC945P/Q	Q320	14C92-111B	TR NPN 2SC945P/Q
! Q107	14D26-010B	TR NPN 2SD882P/Q	Q321	14C92-111B	TR NPN 2SC945P/Q
Q108	14C92-111B	TR NPN 2SC945P/Q	Q322	14C92-111B	TR NPN 2SC945P/Q
Q109	14C92-111B	TR NPN 2SC945P/Q	Q323	14A92-021B	TR PNP 2SA733P/Q
Q110	14B92-011P	TR PNP 2SB562	Q324	14C92-111B	TR NPN 2SC945P/Q
Q111	14C92-111B	TR NPN 2SC945P/Q	● Q332	14C92-111B	TR NPN 2SC945P/Q
Q146	14K3P-070SU	TR MOS FET FS10SM-16A	● Q333	14A92-021B	TR PNP 2SA733P/Q
Q208	14C92-111B	TR NPN 2SC945P/Q	● Q338	14K22-210AU	TR MOS FET FS5KM-9
Q302	14A92-021B	TR PNP 2SA733P/Q	Q339	14C92-111B	TR NPN 2SC945P/Q
Q303	14C92-111B	TR NPN 2SC945P/Q	Q340	14C92-111B	TR NPN 2SC945P/Q
Q304	14A92-021B	TR PNP 2SA733P/Q	Q341	14C92-111B	TR NPN 2SC945P/Q
Q305	14C92-311E	TR NPN JC337-25	Q342	14A92-021B	TR PNP 2SA733P/Q
Q305	14C92-311E	TR NPN JC337-25	Q401	14C92-201E	TR NPN BF483
Q306	14J22-020B	TR MOS FET 2SJ449	⊙ Q401	14C92-201E	TR NPN BF483
! Q306	14J22-020B	TR MOS FET 2SJ449	⊙ Q402	14C92-201E	TR NPN BF483
Q307	14C92-111B	TR NPN 2SC945P/Q	Q402	14C92-201E	TR NPN BF483
Q308	14A92-021B	TR PNP 2SA733P/Q	! Q403	14C3P-220C	TR NPN 2SC5296
Q309	14A92-021B	TR PNP 2SA733P/Q	! Q404	14C92-311E	TR NPN JC337-25
Q310	14A92-021B	TR PNP 2SA733P/Q	Q404	14C92-311E	TR NPN JC337-25
Q311	14C92-111B	TR NPN 2SC945P/Q	Q405	14A92-141E	TR PNP BF488
Q312	14C92-111B	TR NPN 2SC945P/Q	Q414	14C92-111B	TR NPN 2SC945P/Q
● Q313	14C3P-230C	TR NPN 2SC4924 (HIGH)	Q415	14A92-141E	TR PNP BF488
			Q420	14C92-111B	TR NPN 2SC945P/Q
			Q421	14A92-021B	TR PNP 2SA733P/Q

Location	Part No.	Description	Location	Part No.	Description
⊙ ! Q501	14A92-021B	TR PNP 2SA733P/Q	D122	15S11M001F	DI SW 0.5A 50V 1N4148
Q502	14C92-111B	TR NPN 2SC945P/Q	D203	15S11M001F	DI SW 0.5A 50V 1N4148
Q503	14A92-021B	TR PNP 2SA733P/Q	D204	15S61M201F	DI RECTIFIER 1A 50V
Q504	14A92-021B	TR PNP 2SA733P/Q	D205	15S11M001F	DI SW 0.5A 50V 1N4148
Q505	14C92-111B	TR NPN 2SC945P/Q	D301	15S11M001F	DI SW 0.5A 50V 1N4148
! Q506	14C92-311E	TR NPN JC337-25	D302	15S11M001F	DI SW 0.5A 50V 1N4148
Q506	14C92-311E	TR NPN JC337-25	D303	15S11M001F	DI SW 0.5A 50V 1N4148
Q507	14C92-111B	TR NPN 2SC945P/Q	D304	15S11M001F	DI SW 0.5A 50V 1N4148
Q508	14A92-021B	TR PNP 2SA733P/Q	⊙ D306	15S33T201F	DI MD SW 1A 200V
⊙ Q510	14A92-151E	TR PNP JC327-25	⊙ D307	15S33T201F	DI MD SW 1A 200V
Q511	14A92-021B	TR PNP 2SA733P/Q	D308	15S11M001F	DI SW 0.5A 50V 1N4148
Q513	14C92-111B	TR NPN 2SC945P/Q	D309	15S11M001F	DI SW 0.5A 50V 1N4148
Q514	14C92-111B	TR NPN 2SC945P/Q	D310	15S47T201F	DI HI SW 1A 600V
Q619	14C92-111B	TR NPN 2SC945P/Q	D311	15S11M001F	DI SW 0.5A 50V 1N4148
Q620	14A92-061V	TR PNP HBF423	D312	15S11M001F	DI SW 0.5A 50V 1N4148
● Q621	14C92-011V	TR NPN HBF422	D313	15S11M001F	DI SW 0.5A 50V 1N4148
● Q622	14A92-061V	TR PNP HBF423	D314	15S33T201F	DI MD SW 1A 200V
Q623	14C92-011V	TR NPN HBF422	D315	15S33T201F	DI MD SW 1A 200V
● Q624	14A92-061V	TR PNP HBF423	D316	15S3C-702F	DI MD SW 5A 1500V
Q625	14C92-011V	TR NPN HBF422	D317	15B40T2011	DI HI SW 1A 50V
Q627	14C92-111B	TR NPN 2SC945P/Q	D318	15S65M201F	DI RECTIFIER 1A 400V
Q628	14C92-111B	TR NPN 2SC945P/Q	D319	15S65M201F	DI RECTIFIER 1A 400V
Q629	14C92-111B	TR NPN 2SC945P/Q	D320	15S65M201F	DI RECTIFIER 1A 400V
DIODES			D321	15S11M001F	DI SW 0.5A 50V 1N4148
D101	15S49T200F	DI HI SW 1A 1000V	D322	15S11M001F	DI SW 0.5A 50V 1N4148
D102	15S49T200F	DI HI SW 1A 1000V	D402	15S35T201F	DI MD SW 1A 400V
D103	15S11M001F	DI SW 0.5A 50V 1N4148	D403	15S47T201F	DI HI SW 1A 600V
D104	15S33T201F	DI MD SW 1A 200V	D404	15S35T201F	DI MD SW 1A 400V
⊙ D105	15S11M001F	DI SW 0.5A 50V 1N4148	D405	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ D106	15S43T601T	DI HI SW 3A 200V	! D406	15B40T2011	DI HI SW 1A 50V
D107	15S11M001F	DI SW 0.5A 50V 1N4148	D408	15S11M001F	DI SW 0.5A 50V 1N4148
● D108	15S49TK00F	DI HI SW 2.3A 1000V	D409	15S11M001F	DI SW 0.5A 50V 1N4148
D108*2	46R00-0220	CORE RF BRH	D410	15S35T201F	DI MD SW 1A 400V
● D109	15S47TK00F	DI HI SW 2.3A 600V	D411	15S35T201F	DI MD SW 1A 400V
● D110	15S47TK00F	DI HI SW 2.3A 600V	D418	15S11M001F	DI SW 0.5A 50V 1N4148
D111	15S65M201F	DI RECTIFIER 1A 400V	D419	15S35T201F	DI MD SW 1A 400V
⊙ D112	15B6J-6010	DI HI SW 3A 60V	D422	15S39T201F	DI MD SW 1A 1000V
D113	15S11M001F	DI SW 0.5A 50V 1N4148	D423	15S11M001F	DI SW 0.5A 50V 1N4148
D114	15S11M001F	DI SW 0.5A 50V 1N4148	D426	15S11M001F	DI SW 0.5A 50V 1N4148
● D117	15S49TK00F	DI HI SW 2.3A 1000V	D501	15S11M001F	DI SW 0.5A 50V 1N4148
D117*2	46R00-0220	CORE RF BRH	D502	15S11M001F	DI SW 0.5A 50V 1N4148
D119	15S11M001F	DI SW 0.5A 50V 1N4148	D503	15S11M001F	DI SW 0.5A 50V 1N4148
D120	15S11M001F	DI SW 0.5A 50V 1N4148	D504	15S11M001F	DI SW 0.5A 50V 1N4148
D121	15B40T2011	DI HI SW 1A 50V	! D601	15S43M001F	DI HI SW 0.5A 200V
			! D602	15S43M001F	DI HI SW 0.5A 200V
			D603	15S43M001F	DI HI SW 0.5A 200V

Location	Part No.	Description	Location	Part No.	Description
D604	15S43M001F	DI HI SW 0.5A 200V	R121	22215-271M	CF 270R 5% 1/8W
D605	15S43M001F	DI HI SW 0.5A 200V	⊙ R124	23755-8234	MOF 82K 5% 2W
D606	15S43M001F	DI HI SW 0.5A 200V	R125	22215-471M	CF 470R 5% 1/8W
D610	15S11M001F	DI SW 0.5A 50V 1N4148	● R126	23755-2284	MOF 0.22R 5% 2W
D611	15S11M001F	DI SW 0.5A 50V 1N4148	R127	22215-472M	CF 4K7 5% 1/8W
D612	15S11M001F	DI SW 0.5A 50V 1N4148	R128	22215-473M	CF 47K 5% 1/8W
D613	15S11M001F	DI SW 0.5A 50V 1N4148	R129	22225-681M	CF 680R 5% 1/4W
ZENER DIODES			R130	22215-473M	CF 47K 5% 1/8W
ZD101	15Z33M1800P	ZD 18V 5% 0.5W	R131	22215-242M	CF 2K4 5% 1/8W
ZD102	15Z33M6290P	ZD 6.2V 5% 0.5W	R132	22215-272M	CF 2K7 5% 1/8W
ZD103	15Z33M1600H	ZD 16-2V 5% 0.5W	R133	22215-102M	CF 1K 5% 1/8W
ZD105	15Z33M3600P	ZD 36V 5% 0.5W	R134	22225-221M	CF 220R 5% 1/4W
ZD106	15Z33M3600P	ZD 36V 5% 0.5W	R136	22225-333M	CF 33K 5% 1/4W
ZD108	15Z33M1200P	ZD 12V 5% 0.5W	R137	22215-103M	CF 10K 5% 1/8W
ZD301	15Z33M2490P	ZD 2.4V 5% 0.5W	R138	22215-472M	CF 4K7 5% 1/8W
ZD302	15Z33M9190P	ZD 9.1V 5% 0.5W	R139	22225-100M	CF 10R 5% 1/4W
ZD303	15Z33M1200P	ZD 12V 5% 0.5W	R140	22215-473M	CF 47K 5% 1/8W
ZD304	15Z33M1200P	ZD 12V 5% 0.5W	R143	22245-4741	CF 470K 5% 1/2W
ZD402	15Z33M1200P	ZD 12V 5% 0.5W	R144	22245-2231	CF 22K 5% 1/2W
ZD403	15Z33M5190H	ZD 5.1V 5% 0.5W	R146	22225-103M	CF 10K 5% 1/4W
ZD405	15Z33M1200P	ZD 12V 5% 0.5W	R147	22215-271M	CF 270R 5% 1/8W
ZD501	15Z33M3990P	ZD 3.9V 5% 0.5W	R148	22215-472M	CF 4K7 5% 1/8W
ZD503	15Z33M5190H	ZD 5.1V 5% 0.5W	R149	22215-223M	CF 22K 5% 1/8W
RESISTORS			R151	22215-104M	CF 100K 5% 1/8W
R101	22245-4741	CF 470K 5% 1/2W	R154	22215-182M	CF 1K8 5% 1/8W
R102	23245-3034	MOF 30K 5% 1W	R201	22215-332M	CF 3K3 5% 1/8W
R103	24765-3031	CEMENT 30K 5% 5W	R202	22215-152M	CF 1K5 5% 1/8W
R104	24765-1021	CEMENT 1K 5% 5W	R203	22215-683M	CF 68K 5% 1/8W
R105	23225-109M	MOF 1R 5% 1/4W	R207	22225-109M	CF 1R 5% 1/4W
R106	22225-152M	CF 1K5 5% 1/4W	R208	23245-3914	MOF 390R 5% 1W
R107	22225-101M	CF 100R 5% 1/4W	R215	22215-223M	CF 22K 5% 1/8W
R108	22225-680M	CF 68R 5% 1/4W	R217	23A11S052M	MF 953R 1% 1/8W
R109	22215-472M	CF 4K7 5% 1/8W	R219	22215-472M	CF 4K7 5% 1/8W
R110	22215-471M	CF 470R 5% 1/8W	R220	22215-473M	CF 47K 5% 1/8W
R111	22215-103M	CF 10K 5% 1/8W	R223	22225-152M	CF 1K5 5% 1/4W
R112	22245-6831	CF 68K 5% 1/2W	R226	23245-1094	MOF 1R 5% 1W
R113	23A11S055M	MF 988R 1% 1/8W	R227	22215-332M	CF 3K3 5% 1/8W
R114	22225-163M	CF 16K 5% 1/4W	R231	23A11-272M	MF 2K7 1% 1/8W
R115	22215-103M	CF 10K 5% 1/8W	R233	22215-202M	CF 2K 5% 1/8W
R117	22215-223M	CF 22K 5% 1/8W	R234	22215-222M	CF 2K2 5% 1/8W
R119	22215-472M	CF 4K7 5% 1/8W	R297	22215-562M	CF 5K6 5% 1/8W
R120	22215-121M	CF 120R 5% 1/8W	R301	22225-102M	CF 1K 5% 1/4W
			R302	22215-103M	CF 10K 5% 1/8W
			R303	22215-562M	CF 5K6 5% 1/8W
			R304	22215-102M	CF 1K 5% 1/8W
			R305	22215-103M	CF 10K 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R306	22215-153M	CF 15K 5% 1/8W	R354	22215-152M	CF 1K5 5% 1/8W
R307	22215-163M	CF 16K 5% 1/8W	R355	22215-512M	CF 5K1 5% 1/8W
R308	22215-512M	CF 5K1 5% 1/8W	R356	22215-123M	CF 12K 5% 1/8W
R309	22215-913M	CF 91K 5% 1/8W	R357	22215-474M	CF 470K 5% 1/8W
R310	22215-153M	CF 15K 5% 1/8W	R358	22215-103M	CF 10K 5% 1/8W
R311	22215-133M	CF 13K 5% 1/8W	R359	22215-562M	CF 5K6 5% 1/8W
R312	22215-123M	CF 12K 5% 1/8W	R360	22215-102M	CF 1K 5% 1/8W
R313	22215-222M	CF 2K2 5% 1/8W	R361	22215-100M	CF 10R 5% 1/8W
R314	22215-333M	CF 33K 5% 1/8W	R362	23225-109M	MOF 1R 5% 1/4W
R315	22215-123M	CF 12K 5% 1/8W	R363	22215-472M	CF 4K7 5% 1/8W
R316	22215-472M	CF 4K7 5% 1/8W	R364	22215-221M	CF 220R 5% 1/8W
R317	22215-203M	CF 20K 5% 1/8W	R365	23765-1805	MOF 18R 5% 3W
R318	22225-124M	CF 120K 5% 1/4W	R366	23225-109M	MOF 1R 5% 1/4W
R319	23755-1014	MOF 100R 5% 2W	R367	23225-109M	MOF 1R 5% 1/4W
R320	22215-222M	CF 2K2 5% 1/8W	R368	22245-2201	CF 22R 5% 1/2W
R321	22215-473M	CF 47K 5% 1/8W	R369	23765-2295	MOF 2R2 5% 3W
R322	22215-102M	CF 1K 5% 1/8W	R370	22225-103M	CF 10K 5% 1/4W
R323	23245-1094	MOF 1R 5% 1W	R371	23765-6815	MOF 680R 5% 3W
R324	22215-153M	CF 15K 5% 1/8W	R372	22215-470M	CF 47R 5% 1/8W
R325	23A11S051M	MF 11K8 1% 1/8W	R373	22215-153M	CF 15K 5% 1/8W
R326	22215-473M	CF 47K 5% 1/8W	R374	22215-103M	CF 10K 5% 1/8W
R328	22215-562M	CF 5K6 5% 1/8W	R375	22215-103M	CF 10K 5% 1/8W
R329	22215-102M	CF 1K 5% 1/8W	R376	22215-223M	CF 22K 5% 1/8W
R330	22215-623M	CF 62K 5% 1/8W	R377	22215-153M	CF 15K 5% 1/8W
R331	23A11-722M	MF 7K2 1% 1/8W	R378	22215-223M	CF 22K 5% 1/8W
R333	22215-104M	CF 100K 5% 1/8W	R379	22215-153M	CF 15K 5% 1/8W
R334	22215-105M	CF 1M 5% 1/8W	R380	22215-223M	CF 22K 5% 1/8W
R335	22215-273M	CF 27K 5% 1/8W	R381	22215-272M	CF 2K7 5% 1/8W
R336	22215-223M	CF 22K 5% 1/8W	R382	22215-153M	CF 15K 5% 1/8W
R337	22215-224M	CF 220K 5% 1/8W	R383	22215-103M	CF 10K 5% 1/8W
R338	22215-822M	CF 8K2 5% 1/8W	R384	22215-472M	CF 4K7 5% 1/8W
R339	22215-562M	CF 5K6 5% 1/8W	R385	22215-103M	CF 10K 5% 1/8W
R340	22215-473M	CF 47K 5% 1/8W	R386	22215-391M	CF 390R 5% 1/8W
R341	22215-473M	CF 47K 5% 1/8W	R388	23245-6804	MOF 68R 5% 1W
R342	22215-153M	CF 15K 5% 1/8W	R401	23755-3304	MOF 33R 5% 2W
R343	22215-224M	CF 220K 5% 1/8W	R402	22245-3341	CF 330K 5% 1/2W
R344	22215-223M	CF 22K 5% 1/8W	R403	22215-122M	CF 1K2 5% 1/8W
R345	22215-223M	CF 22K 5% 1/8W	R403	22215-222M	CF 2K2 5% 1/8W
R346	22215-224M	CF 220K 5% 1/8W	R404	22215-683M	CF 68K 5% 1/8W
R347	22245-2211	CF 220R 5% 1/2W	R405	22215-822M	CF 8K2 5% 1/8W
R348	22215-272M	CF 2K7 5% 1/8W	R406	22215-821M	CF 820R 5% 1/8W
R349	23225-109M	MOF 1R 5% 1/4W	R407	22215-222M	CF 2K2 5% 1/8W
R350	22215-103M	CF 10K 5% 1/8W	R408	22225-561M	CF 560R 5% 1/4W
R351	22215-222M	CF 2K2 5% 1/8W	R409	23765-3395	MOF 3R3 5% 3W
R352	22215-473M	CF 47K 5% 1/8W	R410	22245-2201	CF 22R 5% 1/2W
R353	22215-133M	CF 13K 5% 1/8W	R411	23755-1514	MOF 150R 5% 2W

Location	Part No.	Description	Location	Part No.	Description
R412	22215-153M	CF 15K 5% 1/8W	R502	22215-472M	CF 4K7 5% 1/8W
R413	22245-1031	CF 10K 5% 1/2W	R503	22215-153M	CF 15K 5% 1/8W
⊙ R425	23225-688M	MOF 0.68R 5% 1/4W	R504	22215-103M	CF 10K 5% 1/8W
R429	22215-103M	CF 10K 5% 1/8W	R505	22225-102M	CF 1K 5% 1/4W
R430	22215-224M	CF 220K 5% 1/8W	R506	22215-102M	CF 1K 5% 1/8W
R431	22215-105M	CF 1M 5% 1/8W	R507	22225-471M	CF 470R 5% 1/4W
R436	23225-109M	MOF 1R 5% 1/4W	R508	22225-472M	CF 4K7 5% 1/4W
R437	22225-394M	CF 390K 5% 1/4W	R509	22225-472M	CF 4K7 5% 1/4W
R439	22215-103M	CF 10K 5% 1/8W	R510	22225-472M	CF 4K7 5% 1/4W
R440	22225-103M	CF 10K 5% 1/4W	R511	22225-432M	CF 4K3 5% 1/4W
R441	22215-103M	CF 10K 5% 1/8W	R512	22215-271M	CF 270R 5% 1/8W
R448	22225-104M	CF 100K 5% 1/4W	R513	22225-102M	CF 1K 5% 1/4W
R450	22215-682M	CF 6K8 5% 1/8W	R514	22225-102M	CF 1K 5% 1/4W
R451	23225-109M	MOF 1R 5% 1/4W	R515	22215-122M	CF 1K2 5% 1/8W
R452	22225-510M	CF 51R 5% 1/4W	R516	22215-122M	CF 1K2 5% 1/8W
● R453	23225-109M	MOF 1R 5% 1/4W	R517	22215-102M	CF 1K 5% 1/8W
R455	22215-103M	CF 10K 5% 1/8W	R518	22215-472M	CF 4K7 5% 1/8W
R457	23A11-183M	MF 18K 1% 1/8W	R519	22215-472M	CF 4K7 5% 1/8W
R458	23A11-133M	MF 13K 1% 1/8W	R520	22215-472M	CF 4K7 5% 1/8W
R459	23A11-822M	MF 8K2 1% 1/8W	R521	22215-472M	CF 4K7 5% 1/8W
R464	22215-303M	CF 30K 5% 1/8W	R522	22215-472M	CF 4K7 5% 1/8W
R465	22215-103M	CF 10K 5% 1/8W	R523	22215-472M	CF 4K7 5% 1/8W
R466	22225-510M	CF 51R 5% 1/4W	R524	22215-472M	CF 4K7 5% 1/8W
R467	22215-563M	CF 56K 5% 1/8W	R525	22215-472M	CF 4K7 5% 1/8W
R468	22215-103M	CF 10K 5% 1/8W	R526	22215-472M	CF 4K7 5% 1/8W
R469	22215-105M	CF 1M 5% 1/8W	R527	22215-102M	CF 1K 5% 1/8W
R471	23A11-823M	MF 82K 1% 1/8W	R528	22225-100M	CF 10R 5% 1/4W
R472	22215-683M	CF 68K 5% 1/8W	R529	22215-243M	CF 24K 5% 1/8W
R473	22215-182M	CF 1K8 5% 1/8W	R530	22215-103M	CF 10K 5% 1/8W
R474	22245-3331	CF 33K 5% 1/2W	R531	22215-102M	CF 1K 5% 1/8W
R475	22225-105M	CF 1M 5% 1/4W	R532	22215-473M	CF 47K 5% 1/8W
R476	22225-105M	CF 1M 5% 1/4W	R533	22215-822M	CF 8K2 5% 1/8W
R477	22225-105M	CF 1M 5% 1/4W	R534	22215-473M	CF 47K 5% 1/8W
R478	22225-681M	CF 680R 5% 1/4W	R535	22215-471M	CF 470R 5% 1/8W
R480	22245-6231	CF 62K 5% 1/2W	R536	22215-472M	CF 4K7 5% 1/8W
R481	22215-184M	CF 180K 5% 1/8W	R537	22225-272M	CF 2K7 5% 1/4W
R483	22215-103M	CF 10K 5% 1/8W	R538	22225-101M	CF 100R 5% 1/4W
R484	22225-243M	CF 24K 5% 1/4W	R539	22215-562M	CF 5K6 5% 1/8W
R485	22225-913M	CF 91K 5% 1/4W	R540	22215-102M	CF 1K 5% 1/8W
R486	22225-102M	CF 1K 5% 1/4W	R542	22215-271M	CF 270R 5% 1/8W
R487	22225-334M	CF 330K 5% 1/4W	R555	23225-109M	MOF 1R 5% 1/4W
R490	22215-102M	CF 1K 5% 1/8W	R600	22215-102M	CF 1K 5% 1/8W
R492	22215-102M	CF 1K 5% 1/8W	R601	22215-101M	CF 100R 5% 1/8W
R496	22215-151M	CF 150R 5% 1/8W	R602	22215-470M	CF 47R 5% 1/8W
R497	22225-332M	CF 3K3 5% 1/4W	R603	22215-750M	CF 75R 5% 1/8W
R501	22215-472M	CF 4K7 5% 1/8W	R604	22215-101M	CF 100R 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R605	22215-470M	CF 47R 5% 1/8W	R678	22245-4701	CF 47R 5% 1/2W
R606	22215-750M	CF 75R 5% 1/8W	R679	22215-224M	CF 220K 5% 1/8W
R607	22215-101M	CF 100R 5% 1/8W	R680	22245-4701	CF 47R 5% 1/2W
R609	22215-470M	CF 47R 5% 1/8W	R681	22215-224M	CF 220K 5% 1/8W
R610	22215-750M	CF 75R 5% 1/8W	R682	22245-4701	CF 47R 5% 1/2W
R611	22215-101M	CF 100R 5% 1/8W	R683	22245-1041	CF 100K 5% 1/2W
R612	22215-330M	CF 33R 5% 1/8W	R690	22215-242M	CF 2K4 5% 1/8W
R613	22215-123M	CF 12K 5% 1/8W	R691	22215-473M	CF 47K 5% 1/8W
R615	22215-202M	CF 2K 5% 1/8W	R692	22215-473M	CF 47K 5% 1/8W
R616	22215-102M	CF 1K 5% 1/8W	R693	22215-473M	CF 47K 5% 1/8W
R617	22215-391M	CF 390R 5% 1/8W	R694	22215-103M	CF 10K 5% 1/8W
R618	22215-391M	CF 390R 5% 1/8W	R695	22215-331M	CF 330R 5% 1/8W
R619	22215-391M	CF 390R 5% 1/8W	R696	22215-101M	CF 100R 5% 1/8W
R620	22215-202M	CF 2K 5% 1/8W	R697	22215-101M	CF 100R 5% 1/8W
R621	22215-750M	CF 75R 5% 1/8W	R698	22215-101M	CF 100R 5% 1/8W
R622	22215-163M	CF 16K 5% 1/8W	R699	22215-101M	CF 100R 5% 1/8W
R627	22215-101M	CF 100R 5% 1/8W	R701	22225-242M	CF 2K4 5% 1/4W
R628	22215-330M	CF 33R 5% 1/8W	R702	23A11-433M	MF 43K 1% 1/8W
R631	22215-750M	CF 75R 5% 1/8W	R705	22215-332M	CF 3K3 5% 1/8W
R632	22215-750M	CF 75R 5% 1/8W	R708	22225-100M	CF 10R 5% 1/4W
R637	22215-101M	CF 100R 5% 1/8W	R901	23A11S032M	MF 19K2 1% 1/8W
R648	22215-101M	CF 100R 5% 1/8W	R902	23A11S032M	MF 19K2 1% 1/8W
R654	22215-152M	CF 1K5 5% 1/8W	R903	23A11-123M	MF 12K 1% 1/8W
R655	22215-202M	CF 2K 5% 1/8W	R904	23A11-123M	MF 12K 1% 1/8W
R656	22215-332M	CF 3K3 5% 1/8W	R905	23A11S010M	MF 5K23 1% 1/8W
R657	22215-224M	CF 220K 5% 1/8W	R906	23A11S010M	MF 5K23 1% 1/8W
R658	22215-224M	CF 220K 5% 1/8W	VARIABLE RESISTOR		
R659	22215-224M	CF 220K 5% 1/8W	VR101	25B20-502B	POT 5KB 0.1W
R660	22215-224M	CF 220K 5% 1/8W	VR102	25B20-102B	POT 1KB 0.1W
R661	22215-224M	CF 220K 5% 1/8W	VR301	25AA0-103B	POT 10KB 0.1W
R662	22215-224M	CF 220K 5% 1/8W	VR302	25B20-102B	POT 1KB 0.1W
R663	22215-223M	CF 22K 5% 1/8W	VR303	25AA0-103B	POT 10KB 0.1W
R664	22215-223M	CF 22K 5% 1/8W	VR403	25B20-203B	POT 20KB 0.1W
R665	22215-223M	CF 22K 5% 1/8W	CAPACITOR		
R666	22215-102M	CF 1K 5% 1/8W	C101	42A77-474F	SAFETY 0.47U 20%
R667	22215-152M	CF 1K5 5% 1/8W	C102	42D77-2224	SAFETY 2200P 20%
R668	22215-102M	CF 1K 5% 1/8W	C103	42D77-2224	SAFETY 2200P 20%
R669	22215-332M	CF 3K3 5% 1/8W	C104	28CD7-2217	EL 220U 20% 400V
R670	22215-102M	CF 1K 5% 1/8W	C105	34175-1034	MPE 0.01U 5% 630V
R671	22215-103M	CF 10K 5% 1/8W	C106	34175-1034	MPE 0.01U 5% 630V
R672	22215-332M	CF 3K3 5% 1/8W	C108	28A47-4711	EL 470U 20% 25V
R673	22215-332M	CF 3K3 5% 1/8W	C111	28H47-101R	EL 100U 20% 25V
R674	22215-332M	CF 3K3 5% 1/8W			
R675	23245-6884	MOF 0.68R 5% 1W			
R676	22245-4701	CF 47R 5% 1/2W			
R677	22215-224M	CF 220K 5% 1/8W			

Location	Part No.	Description	Location	Part No.	Description
C112	39546-221R	CE 220P 10% 1KV	C240	39146-102R	CE 1000P 10% 50V
C113	39146-332R	CE 3300F 10% 50V	C241	39B87C104R	ML 0.1U 20% 50V
C114	39B87C104R	ML 0.1U 20% 50V	C247	39146-471R	CE 470P 10% 50V
C115	28H47-101R	EL 100U 20% 25V	C271	39B87C104R	ML 0.1U 20% 50V
C116	31115-332R	PEI 3300P 5% 50V	C301	39B87C104R	ML 0.1U 20% 50V
C117	39146-102R	CE 1000P 10% 50V	C302	39B87C104R	ML 0.1U 20% 50V
C118	31115-102R	PEI 1000P 5% 50V	C303	39B87C104R	ML 0.1U 20% 50V
C119	283A7-1015	EL 100U 20% 200V	C304	346B5-334R	MPE 0.33U 5% 63V
C120	39446-1038	CE 0.01U 10% 500V	C305	28H37-470R	EL 47U 20% 16V
C121	28A97-1011	EL 100U 20% 100V	C306	39B87C104R	ML 0.1U 20% 50V
C122	39546-470R	CE 47P 10% 1KV Y5P	C307	39B87C104R	ML 0.1U 20% 50V
C123	28A47-4711	EL 470U 20% 25V	C308	28H67-100R	EL 10U 20% 50V
C125	28A37-1021	EL 1000U 20% 16V	C309	28H67-100R	EL 10U 20% 50V
C126	39546-470R	CE 47P 10% 1KV Y5P	C310	28H67-100R	EL 10U 20% 50V
C128	28H37-1021	EL 1000U 20% 16V	C311	38115-101R	CE 100P 5% 50V NPO
C129	28H37-331R	EL 330U 20% 16V	C312	39B87C104R	ML 0.1U 20% 50V
C130	28H37-470R	EL 47U 20% 16V	C313	39B87C104R	ML 0.1U 20% 50V
C131	28A97-1011	EL 100U 20% 100V	C314	28H67-229R	EL 2U2 20% 50V
C132	28A47-4711	EL 470U 20% 25V	C315	28H67-109R	EL 1U 20% 50V
C133	42D77-4725	SAFETY 4700P 20%	C316	39B87C104R	ML 0.1U 20% 50V
C135	39B87C104R	ML 0.1U 20% 50V	C317	39446-471R	CE 470P 10% 500V
C136	39B87C104R	ML 0.1U 20% 50V	C318	34145-1044	MPE 0.1U 5% 250V
C137	28HB7-4701	EL 47U 20% 250V	C319	28H37-471R	EL 470U 20% 16V
C138	28A47-4711	EL 470U 20% 25V	C320	39B87C104R	ML 0.1U 20% 50V
C139	38115-101R	CE 100P 5% 50V NPO	C321	39B87C104R	ML 0.1U 20% 50V
C140	28A47-151R	EL 150U 20% 25V	C322	28H67-100R	EL 10U 20% 50V
C141	28H37-331R	EL 330U 20% 16V	C323	39B87C104R	ML 0.1U 20% 50V
C142	28H37-101R	EL 100U 20% 16V	C324	28H47-470R	EL 47U 20% 25V
C151	28H37-101R	EL 100U 20% 16V	C325	28H67-109R	EL 1U 20% 50V
C153	28H37-471R	EL 470U 20% 16V	C326	28HB7-109R	EL 1U 20% 250V
C201	39146-681R	CE 680P 10% 50V	C327	39187-103R	CE 0.01U 20% 50V
C205	28H47-4711	EL 470U 20% 25V	C328	28H37-471R	EL 470U 20% 16V
C206	39B87C104R	ML 0.1U 20% 50V	C329	28H67-109R	EL 1U 20% 50V
C207	346B5-224R	MPE 0.22U 5% 63V	C330	28H67-479R	EL 4U7 20% 50V
C208	39B87C104R	ML 0.1U 20% 50V	C331	39446-102R	CE 1000P 10% 500V
C215	31115-473R	PEI 0.047U 5% 50V	C332	28H37-470R	EL 47U 20% 16V
C218	39B87C104R	ML 0.1U 20% 50V	C333	28H67-479R	EL 4U7 20% 50V
C221	39B87C104R	ML 0.1U 20% 50V	C334	39187-103R	CE 0.01U 20% 50V
C222	39146-102R	CE 1000P 10% 50V	C335	28H67-100R	EL 10U 20% 50V
C223	28H67-100R	EL 10U 20% 50V	C337	39B87C104R	ML 0.1U 20% 50V
C224	28H47-4711	EL 470U 20% 25V	C338	39187-103R	CE 0.01U 20% 50V
C225	28H57-101R	EL 100U 20% 35V	C339	34145-185C	MPE 1U8 5% 250V
C234	39B87C104R	ML 0.1U 20% 50V	C340	28HB7-2201	EL 22U 20% 250V
C236	28457-479R	EL 4U7 20% 35V	C341	34145-4734	MPE 0.047U 5% 250V
C238	39B87C104R	ML 0.1U 20% 50V	C342	32115-102R	PEN 1000P 5% 50V
C239	39B87C104R	ML 0.1U 20% 50V	C343	32115-103R	PEN 0.01U 5% 50V

Location	Part No.	Description	Location	Part No.	Description
C344	38115-220R	CE 22P 5% 50V NPO	C448	39446-472R	CE 4700P 10% 500V
C345	375B5-392CH	PPS 3900P 5% 2KV	C455	39187-103R	CE 0.01U 20% 50V
C348	28H97-1011	EL 100U 20% 100V	C456	38596-220R	CE 22P 10% 1KV
C349	39446-102R	CE 1000P 10% 500V	C457	28H67-100R	EL 10U 20% 50V
C350	35155A2746	MPP 0.27U 5% 400V	C460	28H67-109R	EL 1U 20% 50V
C351	39B87C104R	ML 0.1U 20% 50V	C501	28H67-479R	EL 4U7 20% 50V
C353	39446-472R	CE 4700P 10% 500V	C502	28H67-479R	EL 4U7 20% 50V
C354	35155-1046	MPP 0.1U 5% 400V	C503	28H67-479R	EL 4U7 20% 50V
C355	39146-102R	CE 1000P 10% 50V	C504	28H67-100R	EL 10U 20% 50V
C356	35155-2747	MPP 0.27U 5% 400V	C505	38196-330R	CE 33P 10% 50V
C357	39146-102R	CE 1000P 10% 50V	C506	38196-330R	CE 33P 10% 50V
C358	35145-6847	MPP 0.68U 5% 250V	C507	39146-102R	CE 1000P 10% 50V
C359	39146-471R	CE 470P 10% 50V	C508	38115-470R	CE 47P 5% 50V NPO
C360	28H67-220R	EL 22U 20% 50V	C509	28H67-479R	EL 4U7 20% 50V
C362	39146-471R	CE 470P 10% 50V	C510	28H67-479R	EL 4U7 20% 50V
C380	39B87C104R	ML 0.1U 20% 50V	C511	28H67-479R	EL 4U7 20% 50V
C390	28H37-470R	EL 47U 20% 16V	C512	28H67-479R	EL 4U7 20% 50V
C391	39146-331R	CE 330P 10% 50V	C513	28H67-479R	EL 4U7 20% 50V
C392	39B56E332R	ML 3300P 10% 50V	C514	28H67-479R	EL 4U7 20% 50V
C393	39B87C104R	ML 0.1U 20% 50V	C515	28H67-479R	EL 4U7 20% 50V
C394	39B87C104R	ML 0.1U 20% 50V	C516	28H67-479R	EL 4U7 20% 50V
C396	39146-102R	CE 1000P 10% 50V	C517	28H67-479R	EL 4U7 20% 50V
C398	39146-102R	CE 1000P 10% 50V	C518	28H67-479R	EL 4U7 20% 50V
C401	39446-221R	CE 220P 10% 500V	C520	39187-103R	CE 0.01U 20% 50V
C402	34145-1534	MPE 0.015U 5% 250V	C521	28H47-101R	EL 100U 20% 25V
C403	28H67-100R	EL 10U 20% 50V	C522	39B87C104R	ML 0.1U 20% 50V
C404	28467-229R	EL 2U2 20% 50V	C523	28H37-470R	EL 47U 20% 16V
C405	28457-479R	EL 4U7 20% 35V	C524	39187-103R	CE 0.01U 20% 50V
C406	28HB7-2201	EL 22U 20% 250V	C525	31115-102R	PEI 1000P 5% 50V
C407	35145-6847	MPP 0.68U 5% 250V	C526	31115-102R	PEI 1000P 5% 50V
C408	34145-2246	MPE 0.22U 5% 250V	C527	39187-103R	CE 0.01U 20% 50V
C409	39446-471R	CE 470P 10% 500V	C601	38115-470R	CE 47P 5% 50V NPO
C410	375B5-1827H	PPS 1800P 5% 2KV	C602	34115-224R	MPE 0.22U 5% 50V
C411	34125-1043	MPE 0.1U 5% 100V	C603	28H67-100R	EL 10U 20% 50V
C412	28HE7-3391	EL 3U3 20% 450V	C605	34115-224R	MPE 0.22U 5% 50V
C413	39187-103R	CE 0.01U 20% 50V	C606	34115-224R	MPE 0.22U 5% 50V
C414	39146-102R	CE 1000P 10% 50V	C607	39B87C104R	ML 0.1U 20% 50V
C415	39B87C104R	ML 0.1U 20% 50V	C608	28H37-1021	EL 1000U 20% 16V
C438	28H67-100R	EL 10U 20% 50V	C610	28H67-100R	EL 10U 20% 50V
C439	28HB7-1001	EL 10U 20% 250V	C611	39B87C104R	ML 0.1U 20% 50V
C440	39546-1038	CE 0.01U 10% 1KV	C612	39187-103R	CE 0.01U 20% 50V
C442	28H67-109R	EL 1U 20% 50V	C613	39B87C104R	ML 0.1U 20% 50V
C443	39446-1038	CE 0.01U 10% 500V	C615	28H67-100R	EL 10U 20% 50V
C444	28H67-479R	EL 4U7 20% 50V	C616	39B87C104R	ML 0.1U 20% 50V
C445	39146-152R	CE 1500P 10% 50V	C617	39187-103R	CE 0.01U 20% 50V
C447	39446-1038	CE 0.01U 10% 500V	C618	28H67-100R	EL 10U 20% 50V

Location	Part No.	Description	Location	Part No.	Description
C619	39B87C104R	ML 0.1U 20% 50V	L103	47E00-0240	XFMR EMI ET-24
C620	28H27-221R	EL 220U 20% 10V	L104	45M1K-4704	COIL CHOKE 47U
C621	39B87C104R	ML 0.1U 20% 50V	L106	45M1K-4704	COIL CHOKE 47U
C622	39B87C104R	ML 0.1U 20% 50V	L107	45M1K-4704	COIL CHOKE 47U
C623	28H67-109R	EL 1U 20% 50V	L108	45M1K-4704	COIL CHOKE 47U
C624	39187-103R	CE 0.01U 20% 50V	L109	45B0K-220T	COIL PEAKING 22U
C625	28H37-470R	EL 47U 20% 16V	L301	46L00-0500L	COIL LINEAR 9.8uH
C626	39187-103R	CE 0.01U 20% 50V	L302	45M1K-4704	COIL CHOKE 47U
C627	39187-103R	CE 0.01U 20% 50V	L303	46N00-0100	COIL LINE CHOKE 5mH
C628	39187-103R	CE 0.01U 20% 50V	L304	46N00-0120	COIL LINE CHOKE 1mH
C629	28H37-471R	EL 470U 20% 16V	L305	46N00-0120	COIL LINE CHOKE 1mH
C630	39E56E103R	ML 0.01U 10% 100V	L401	45M1K-4704	COIL CHOKE 47U
C631	39E56E103R	ML 0.01U 10% 100V	L402	46N00-0510	COIL CHOKE 5mH EI-22
C638	39B87C104R	ML 0.1U 20% 50V	L601	45B0K-109M	COIL PEAKING 1U
C640	28H37-470R	EL 47U 20% 16V	L602	45B0K-109M	COIL PEAKING 1U
C647	39146-101R	CE 100P 10% 50V	L603	45B0K-109M	COIL PEAKING 1U
C648	34125-2244	MPE 0.22U 5% 100V	L604	45B0K-109M	COIL PEAKING 1U
C649	34125-2244	MPE 0.22U 5% 100V	L605	46R00-0010	CORE RF BEAD RHW
C650	34125-2244	MPE 0.22U 5% 100V	L612	45B0K-228M	COIL PEAKING 0.22U
C651	39446-472R	CE 4700P 10% 500V	L613	45B0K-228M	COIL PEAKING 0.22U
C652	28HB7-109R	EL 1U 20% 250V	L614	45B0K-228M	COIL PEAKING 0.22U
C654	39187-103R	CE 0.01U 20% 50V	TRANSFORMERS		
C656	39187-103R	CE 0.01U 20% 50V			
C658	39187-103R	CE 0.01U 20% 50V	T101	47S00-0830T	XFMR SPS EE-42/15
C659	39187-103R	CE 0.01U 20% 50V	T301	47P10-0100	XFMR PINCUSHING EI-25
C660	39187-103R	CE 0.01U 20% 50V	T302	47F15-0040	XFMR FBT DUMMY
C661	39446-102R	CE 1000P 10% 500V	T303	47D10-0340L	XFMR DRIVE EI-22
C662	39687-1038	CE 0.01U 20% 2KV	T401	47J00-0070	XFMR FOCUS EI-22
C664	39187-103R	CE 0.01U 20% 50V	T402	47D10-0290L	XFMR DRIVE EI-19
C668	28A97-4701	EL 47U 20% 100V	T402	47F13-0730M	XFMR FBT
C673	39E56E103R	ML 0.01U 10% 100V			W/FOCUS/SCREENOR BLOCK
C676	28H27-221R	EL 220U 20% 10V			
C680	39B87C104R	ML 0.1U 20% 50V			
C681	39146-472R	CE 4700P 10% 50V			
C682	39187-103R	CE 0.01U 20% 50V			
C688	38115-470R	CE 47P 5% 50V NPO			
C689	39187-103R	CE 0.01U 20% 50V			
C690	39146-471R	CE 470P 10% 50V			
C691	39187-103R	CE 0.01U 20% 50V			
C693	39146-222R	CE 2200P 10% 50V			
C694	39446-471R	CE 470P 10% 500V			
COILS					
L101	45M1K-4704	COIL CHOKE 47U			
L102	47E00-0240	XFMR EMI ET-24			

Location	Part No.	Description
INTEGRATED CIRCUITS		
● IC101	17A06-150G	IC LINEAR 8P DEFLECTION3842
! IC102	17A07-171H	IC LINEAR VOTAGE REG. XC62AP5002LH 3P
IC103	17B21-090B	IC PHOTO OPTOCUPLER PS2561-M/TLP721F-GR
IC104	17A07-031D	IC LINEAR 3P VOLTAGE REGULATOR 431
● ! IC201	17A06-290C	IC LINEAR 7P DEFLECTIONLA7840
● ! IC301	17A06-280B	IC LINEAR 30P DEFLECTION C1883 (ACT)
IC302	17A11-040H	IC LINEAR O/P AMP LM3588P
● IC303	17A06-190G	IC LINEAR 8P DEFLECTIONUC3843B
IC304	17A11-030H	IC LINEAR O/P AMP HA17393/2903 8P
! IC501	16P40-029F	IC MICRO-PROCESSOR 40P 68P61 MASK ROM
IC502	16M08-009R	IC EEPROM AT24C04 (B)-10PC (BLANK) 8P
● IC503	16T14-023R	IC TTL 74LS74 14P
IC601	17A04-130K	IC LINEAR 28P VIDEO LM1282
● IC603	16N20-004U	IC CONTROLLER 20P M35045-080SP
● IC604	17A23-002H	IC LINEAR DIGITAL/ANALOG 62359P 18P
● IC605	17A04-150K	IC LINEAR 11P VIDEO LM2405T
MISCELLANEOUS		
	11S31-069A	PCB MAIN-S 330*297*1.6MM 1769E
	11S33-036A	PCB CRT-S 148*118*1.6MM 1769SE
	11S39-027A	PCB LED-S 1765D 24*16.5*1.6MM
	11S3D-030A	PCB DISPLAY-S 172.5*27*1.6MM 1769E
	56Q67-1803	POWER CORD IBMPC VDE 1M8-B 250V10A
	64C30-0100	SOCKET CRT COLOR-H
	65S10-2000	CABLE SIGNAL 15D-11H 3+6 200CM BLACK W/C
	65W3131610	CONN H WIRE 1007#24 3P 2.5 16L-T
	8200002000	CLAMP CABLE WC-6R
	859001-401	TAPE STRETCH FLIM W=500MM 1500 M/RL
	46G00-0085	COIL ROTATION (300T)
	46G00-0130	COIL DEGAUSSING (106T)
	54B11-8206	WIRE BRAID 82CM
	54C23B1601	WIRE TERMINAL 1015#18 16L BK W/TUBE
	19D0A-0010	DIODE LED BICOLOR W-DIFFUSED (L-119YGW)
	20H17-11AB	CRT C-.27 NG M41KXH100X01-(J)
CRT YOKE	7906950200	CABLE CLIP (WIRE MOUNTS)
CRT-FRONT CABINET	6776050220	SCREW PLASTIC TAPPING T5*22
F/C & R/C	6776040160	SCREW PLASTIC TAPPING T4*16
● F101	49FB2-0A0A	FUSE SLOW 3.15A 250V (NORDIC)
FBT	7905716000	FBT CLIPS (HV-1)
FD601	46R00-0010	CORE RF BEAD RHW
FD602	46R00-0010	CORE RF BEAD RHW
FD603	46R00-0010	CORE RF BEAD RHW
M/B	7906656200	CABLE CLIPS D=11.5 L=50MM (TA11-50)

Location	Part No.	Description
NTC101	26B00-0061	NTCR 5R 15% 5A
P101	64P20-1010	SOCKET POWER
P104-CRT/B P605	65W81327D0	CONN H/T WIRE 1007#24 8P 2.5 27L-T
P501-CRT/B P604	65WB1334D0	CONN H/T WIRE 1007#24 12P 2.5 34L-T
P608-M/B P402	65W35223B1	CONN H/T WIRE 1015#22 3P 7.5/5 23L-T W/C
P901	65W51317D0	CONN H/T WIRE 1007#24 5P 2.5 17L-T
PTC101	26A00-0080	PTCR 9R 20% 2P
RL101	53R001-008M	RELAY COIL DC12V 5A/250V (2-A)
RL102	53R001-010	RELAY COIL DC5V 40NA/2A(2-C)
RP301	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W (COMMON P1)
RP302	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W (COMMON P1)
RP501	16K04-001Z	IC RES ARRAY 10K*3 5% 1/8W (COMMON P1)
RP502	16K09-004Z	IC RES ARRAY 3K3*8 5% 1/8W (COMMON P1)
RP503	16K06-001Z	IC RES ARRAY 3K3*5 5% 1/8W (COMMON P1)
RP504	16K08-001Z	IC RES ARRAY 10K*7 5% 1/8W (COMMONP1)
SG601	42S00-0201	SPARK GAP DSP-201M 200V20%
SG602	42S00-0201	SPARK GAP DSP-201M 200V20%
SG603	42S00-0201	SPARK GAP DSP-201M 200V20%
SG604	42S00-0301	SPARK GAP DSP-301N 300V30%
SW101	52P12-0030	SWITCH POWER 1P2T 5A250V
SW901	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW902	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW903	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW904	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW905	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW906	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW907	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW908	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
TP1	65W10Y3610	CONN H WIRE 1015#18 1P(F) 36L
TP2	68D00-0050	ROUND PIN TP D=2.36 L=14.2MM
TP302	65W10Y4211	CONN H WIRE 1015#18 1P (M) 42L
XL501	60R01-0010	RESONATOR 8MHZ
Q104-DRAIN	46R00-0230	CORE RF BRH
IC501 PIN39 AND GND	38115-220R	CE 22P 5% 50V NPO
P604 PIN V AND GND	39B87C333R	ML 0.033U 20% 50V
A-A' (C131 ' ' TO C137 ' ')	54N23B0700	WIRE LEAD 1015#18 7L BK
BD101	15D68-F000	DI BRIDGE 4A 800V

1792E/SE Parts List

Abbreviations : Capacitors EL: Electrolytic Aluminum, TA: Tantalum, CE: Ceramic
 PP: Polypropylene, PEI: Polyster (Inductive),
 PEN: Polyster (Non-Inductive) PPS: Serial Poly Propylene,
 MPE: Polyster Metalized, MPP: Polypropylene Metalized.
 Resistors..... CF: Carbon Film, MF: Metal Film, VR: Variable Resistor.
 MOF: Metal Oxide Film, POT: Potentiometer
 Semiconductor... TR: Transistor, DI: Diode, ZD: Zener Diode, IC: IC.

Remark: ●: 1st priority , Recommended Q'ty = (Location Number x3)
 ⊙: 2nd priority, Recommended Q'ty = (Location Number x2)
 !: New parts

Location	Part No.	Description	Location	Part No.	Description
TRANSISTOR			Q319	14C92-111B	TR NPN 2SC945P/Q
			Q320	14C92-111B	TR NPN 2SC945P/Q
⊙ Q101	14T92-011E	TR SCR BT169D	Q321	14C92-111B	TR NPN 2SC945P/Q
Q102	14C92-111B	TR NPN 2SC945P/Q	Q322	14C92-111B	TR NPN 2SC945P/Q
Q103	14C92-111B	TR NPN 2SC945P/Q	Q323	14A92-021B	TR PNP 2SA733P/Q
Q105	14A92-021B	TR PNP 2SA733P/Q	Q324	14C92-111B	TR NPN 2SC945P/Q
Q106	14C92-111B	TR NPN 2SC945P/Q	● Q332	14C92-111B	TR NPN 2SC945P/Q
! Q107	14D26-010B	TR NPN 2SD882P/Q	● Q333	14A92-021B	TR PNP 2SA733P/Q
Q108	14C92-111B	TR NPN 2SC945P/Q	● Q338	14K22-210AU	TR MOS FET FS5KM-9
Q109	14C92-111B	TR NPN 2SC945P/Q	Q339	14C92-111B	TR NPN 2SC945P/Q
Q110	14B92-011P	TR PNP 2SB562	Q340	14C92-111B	TR NPN 2SC945P/Q
Q111	14C92-111B	TR NPN 2SC945P/Q	Q341	14C92-111B	TR NPN 2SC945P/Q
Q208	14C92-111B	TR NPN 2SC945P/Q	Q342	14A92-021B	TR PNP 2SA733P/Q
Q302	14A92-021B	TR PNP 2SA733P/Q	Q343	14K22-300B	TR MOS FET 2SK2136
Q303	14C92-111B	TR NPN 2SC945P/Q	Q344	14C92-111B	TR NPN 2SC945P/Q
Q304	14A92-021B	TR PNP 2SA733P/Q	Q401	14C92-201E	TR NPN BF483
Q305	14C92-311E	TR NPN JC337-25	⊙ Q402	14C92-201E	TR NPN BF483
! Q306	14J22-020B	TR MOS FET 2SJ449	! Q403	14C3P-220C	TR NPN 2SC5296
Q307	14C92-111B	TR NPN 2SC945P/Q	Q404	14C92-311E	TR NPN JC337-25
Q308	14A92-021B	TR PNP 2SA733P/Q	Q405	14A92-141E	TR PNP BF488
Q309	14A92-021B	TR PNP 2SA733P/Q	Q414	14C92-111B	TR NPN 2SC945P/Q
Q310	14A92-021B	TR PNP 2SA733P/Q	Q415	14A92-141E	TR PNP BF488
Q311	14C92-111B	TR NPN 2SC945P/Q	Q420	14C92-111B	TR NPN 2SC945P/Q
Q312	14C92-111B	TR NPN 2SC945P/Q	Q421	14A92-021B	TR PNP 2SA733P/Q
● Q313	14C3P-230C	TR NPN 2SC4924 (HIGH)	⊙ ! Q501	14A92-021B	TR PNP 2SA733P/Q
Q314	14K92-041E	TR MOS FET BSN254	Q502	14C92-111B	TR NPN 2SC945P/Q
● Q315	14K22-110W	TR MOS FET 630/890	Q503	14A92-021B	TR PNP 2SA733P/Q
Q316	14C92-111B	TR NPN 2SC945P/Q	Q504	14A92-021B	TR PNP 2SA733P/Q
Q318	14K22-300B	TR MOS FET 2SK2136	Q505	14C92-111B	TR NPN 2SC945P/Q

Location	Part No.	Description	Location	Part No.	Description
! Q506	14C92-311E	TR NPN JC337-25	D307	15S33T201F	DI MD SW 1A 200V
Q507	14C92-111B	TR NPN 2SC945P/Q	D308	15S11M001F	DI SW 0.5A 50V 1N4148
Q508	14A92-021B	TR PNP 2SA733P/Q	D309	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ Q510	14A92-151E	TR PNP JC327-25	D310	15S47T201F	DI HI SW 1A 600V 30NS
Q511	14A92-021B	TR PNP 2SA733P/Q	D311	15S11M001F	DI SW 0.5A 50V 1N4148
Q513	14C92-111B	TR NPN 2SC945P/Q	D312	15S11M001F	DI SW 0.5A 50V 1N4148
Q514	14C92-111B	TR NPN 2SC945P/Q	D313	15S11M001F	DI SW 0.5A 50V 1N4148
Q603	14C92-111B	TR NPN 2SC945P/Q	D314	15S33T201F	DI MD SW 1A 200V
Q606	14C92-111B	TR NPN 2SC945P/Q	D315	15S33T201F	DI MD SW 1A 200V
Q620	14A92-061E	TR PNP BF423	D316	15S6C-A01F	DI RECTIFIER 10A 1500V
● Q621	14C92-011E	TR NPN BF422	D317	15B40T2011	DI HI SW 1A 50V
● Q622	14A92-061E	TR PNP BF423	D318	15S65M201F	DI RECTIFIER 1A 400V
Q623	14C92-011E	TR NPN BF422	D319	15S65M201F	DI RECTIFIER 1A 400V
● Q624	14A92-061E	TR PNP BF423	D320	15S65M201F	DI RECTIFIER 1A 400V
Q625	14C92-011E	TR NPN BF422	D321	15S11M001F	DI SW 0.5A 50V 1N4148
Q627	14C92-111B	TR NPN 2SC945P/Q	D322	15S11M001F	DI SW 0.5A 50V 1N4148
DIODES			D323	15S65M201F	DI RECTIFIER 1A 400V
D101	15S49T200F	DI HI SW 1A 1000V 75NS	D402	15S35T201F	DI MD SW 1A 400V
D102	15S49T200F	DI HI SW 1A 1000V 75NS	D403	15S47T201F	DI HI SW 1A 600V 30NS
D103	15S11M001F	DI SW 0.5A 50V 1N4148	D404	15S35T201F	DI MD SW 1A 400V
D104	15S33T201F	DI MD SW 1A 200V	D405	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ D105	15S11M001F	DI SW 0.5A 50V 1N4148	D406	15B40T2011	DI HI SW 1A 50V
⊙ D106	15S43T601T	DI HI SW 3A 200V 50NS	D408	15S11M001F	DI SW 0.5A 50V 1N4148
D107	15S11M001F	DI SW 0.5A 50V 1N4148	D409	15S11M001F	DI SW 0.5A 50V 1N4148
● D108	15S49TK00F	DI HI SW 2.3A 1000V 75NS	D418	15S11M001F	DI SW 0.5A 50V 1N4148
● D109	15S47TK00F	DI HI SW 2.3A 600V 30NS	D419	15S35T201F	DI MD SW 1A 400V
● D110	15S47TK00F	DI HI SW 2.3A 600V 30NS	D422	15S39T201F	DI MD SW 1A 1000V
D111	15S65M201F	DI RECTIFIER 1A 400V	D423	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ D112	15B6J-6010	DI HI SW 3A 60V	D426	15S11M001F	DI SW 0.5A 50V 1N4148
D113	15S11M001F	DI SW 0.5A 50V 1N4148	D501	15S11M001F	DI SW 0.5A 50V 1N4148
D114	15S11M001F	DI SW 0.5A 50V 1N4148	D502	15S11M001F	DI SW 0.5A 50V 1N4148
● D117	15S49TK00F	DI HI SW 2.3A 1000V 75NS	D503	15S11M001F	DI SW 0.5A 50V 1N4148
D119	15S11M001F	DI SW 0.5A 50V 1N4148	D504	15S11M001F	DI SW 0.5A 50V 1N4148
D120	15S11M001F	DI SW 0.5A 50V 1N4148	D601	15S43M001F	DI HI SW 0.5A 200V
D121	15B40T2011	DI HI SW 1A 50V	D602	15S43M001F	DI HI SW 0.5A 200V
D122	15S11M001F	DI SW 0.5A 50V 1N4148	D603	15S43M001F	DI HI SW 0.5A 200V
D203	15S11M001F	DI SW 0.5A 50V 1N4148	D604	15S43M001F	DI HI SW 0.5A 200V
D204	15S61M201F	DI RECTIFIER 1A 50V	D605	15S43M001F	DI HI SW 0.5A 200V
D205	15S11M001F	DI SW 0.5A 50V 1N4148	D606	15S43M001F	DI HI SW 0.5A 200V
D301	15S11M001F	DI SW 0.5A 50V 1N4148	D610	15S11M001F	DI SW 0.5A 50V 1N4148
D302	15S11M001F	DI SW 0.5A 50V 1N4148	D611	15S11M001F	DI SW 0.5A 50V 1N4148
D303	15S11M001F	DI SW 0.5A 50V 1N4148	D612	15S11M001F	DI SW 0.5A 50V 1N4148
D304	15S11M001F	DI SW 0.5A 50V 1N4148	D613	15S11M001F	DI SW 0.5A 50V 1N4148
D306	15S33T201F	DI MD SW 1A 200V	D614	15S11M001F	DI SW 0.5A 50V 1N4148
			D615	15S11M001F	DI SW 0.5A 50V 1N4148

Location	Part No.	Description	Location	Part No.	Description
ZENER DIODES			R131	22215-242M	CF 2K4 5% 1/8W
			R132	22215-272M	CF 2K7 5% 1/8W
ZD101	15Z33M1800P	ZD 18V 5% 0.5W	R133	22215-102M	CF 1K 5% 1/8W
ZD102	15Z33M6290P	ZD 6.2V 5% 0.5W	R134	22225-221M	CF 220R 5% 1/4W
ZD103	15Z33M1600H	ZD 16-2V 5% 0.5W	R136	22225-333M	CF 33K 5% 1/4W
ZD105	15Z33M3600P	ZD 36V 5% 0.5W	R137	22215-103M	CF 10K 5% 1/8W
ZD106	15Z33M3600P	ZD 36V 5% 0.5W	R138	22215-472M	CF 4K7 5% 1/8W
ZD108	15Z33M1200P	ZD 12V 5% 0.5W	R139	22225-100M	CF 10R 5% 1/4W
ZD301	15Z33M2490P	ZD 2.4V 5% 0.5W	R140	22215-473M	CF 47K 5% 1/8W
ZD302	15Z33M9190P	ZD 9.1V 5% 0.5W	R143	22245-4741	CF 470K 5% 1/2W
ZD303	15Z33M1200P	ZD 12V 5% 0.5W	R144	22245-2231	CF 22K 5% 1/2W
ZD304	15Z33M1200P	ZD 12V 5% 0.5W	R146	22225-103M	CF 10K 5% 1/4W
ZD402	15Z33M1200P	ZD 12V 5% 0.5W	R147	22215-271M	CF 270R 5% 1/8W
ZD403	15Z33M5190H	ZD 5.1V 5% 0.5W	R148	22215-472M	CF 4K7 5% 1/8W
ZD405	15Z33M1200P	ZD 12V 5% 0.5W	R149	22215-223M	CF 22K 5% 1/8W
ZD501	15Z33M3990P	ZD 3.9V 5% 0.5W	R151	22215-104M	CF 100K 5% 1/8W
ZD503	15Z33M5190H	ZD 5.1V 5% 0.5W	R154	22215-182M	CF 1K8 5% 1/8W
RESISTORS			R201	22215-332M	CF 3K3 5% 1/8W
R101	22245-4741	CF 470K 5% 1/2W	R202	22215-152M	CF 1K5 5% 1/8W
R102	23245-3034	MOF 30K 5% 1W	R203	22215-683M	CF 68K 5% 1/8W
R103	24765-3031	CEMENT 30K 5% 5W	R207	22225-109M	CF 1R 5% 1/4W
R104	24765-1021	CEMENT 1K 5% 5W	R208	23245-3914	MOF 390R 5% 1W
R105	23225-109M	MOF 1R 5% 1/4W	R215	22215-223M	CF 22K 5% 1/8W
R106	22225-152M	CF 1K5 5% 1/4W	R217	23A11S052M	MF 953R 1% 1/8W
R107	22225-101M	CF 100R 5% 1/4W	R219	22215-472M	CF 4K7 5% 1/8W
R108	22225-680M	CF 68R 5% 1/4W	R220	22215-473M	CF 47K 5% 1/8W
R109	22215-472M	CF 4K7 5% 1/8W	R223	22225-152M	CF 1K5 5% 1/4W
R110	22215-471M	CF 470R 5% 1/8W	R226	23245-1094	MOF 1R 5% 1W
R111	22215-103M	CF 10K 5% 1/8W	R227	22215-332M	CF 3K3 5% 1/8W
R112	22245-6831	CF 68K 5% 1/2W	R231	23A11-272M	MF 2K7 1% 1/8W
R113	23A11S055M	MF 988R 1% 1/8W	R233	22215-152M	CF 1K5 5% 1/8W
R114	22225-163M	CF 16K 5% 1/4W	R234	22215-222M	CF 2K2 5% 1/8W
R115	22215-103M	CF 10K 5% 1/8W	R297	22215-562M	CF 5K6 5% 1/8W
R117	22215-223M	CF 22K 5% 1/8W	R301	22225-102M	CF 1K 5% 1/4W
R119	22215-472M	CF 4K7 5% 1/8W	R302	22215-103M	CF 10K 5% 1/8W
R120	22215-121M	CF 120R 5% 1/8W	R303	22215-562M	CF 5K6 5% 1/8W
R121	22215-271M	CF 270R 5% 1/8W	R304	22215-102M	CF 1K 5% 1/8W
⊙ R124	23755-8234	MOF 82K 5% 2W	R305	22215-103M	CF 10K 5% 1/8W
R125	22215-471M	CF 470R 5% 1/8W	R306	22215-153M	CF 15K 5% 1/8W
● R126	23755-2284	MOF 0.22R 5% 2W	R307	22215-163M	CF 16K 5% 1/8W
R127	22215-472M	CF 4K7 5% 1/8W	R308	22215-512M	CF 5K1 5% 1/8W
R128	22215-473M	CF 47K 5% 1/8W	R309	22215-913M	CF 91K 5% 1/8W
R129	22225-681M	CF 680R 5% 1/4W	R310	22215-153M	CF 15K 5% 1/8W
R130	22215-473M	CF 47K 5% 1/8W	R311	22215-133M	CF 13K 5% 1/8W
			R312	22215-123M	CF 12K 5% 1/8W
			R313	22215-222M	CF 2K2 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R314	22215-333M	CF 33K 5% 1/8W	R363	22215-472M	CF 4K7 5% 1/8W
R315	22215-123M	CF 12K 5% 1/8W	R364	22215-221M	CF 220R 5% 1/8W
R316	22215-472M	CF 4K7 5% 1/8W	R365	23765-1805	MOF 18R 5% 3W
R317	22215-203M	CF 20K 5% 1/8W	R366	23225-109M	MOF 1R 5% 1/4W
R318	22225-124M	CF 120K 5% 1/4W	R367	23225-109M	MOF 1R 5% 1/4W
R319	23755-1014	MOF 100R 5% 2W	R368	22245-2201	CF 22R 5% 1/2W
R320	22215-222M	CF 2K2 5% 1/8W	R369	23886-1090	MOF 1R 10% 5W
R321	22215-473M	CF 47K 5% 1/8W	R370	22225-103M	CF 10K 5% 1/4W
R322	22215-102M	CF 1K 5% 1/8W	R371	23885-6810	MOF 680R 5% 5W
R323	23245-1094	MOF 1R 5% 1W	R372	22215-470M	CF 47R 5% 1/8W
R324	22215-153M	CF 15K 5% 1/8W	R373	22215-153M	CF 15K 5% 1/8W
R325	23A11S051M	MF 11K8 1% 1/8W	R374	22215-103M	CF 10K 5% 1/8W
R326	22215-473M	CF 47K 5% 1/8W	R375	22215-103M	CF 10K 5% 1/8W
R328	22215-562M	CF 5K6 5% 1/8W	R376	22215-223M	CF 22K 5% 1/8W
R329	22215-102M	CF 1K 5% 1/8W	R377	22215-153M	CF 15K 5% 1/8W
R330	22215-623M	CF 62K 5% 1/8W	R378	22215-223M	CF 22K 5% 1/8W
R331	23A11-622M	MF 6K2 1% 1/8W	R379	22215-153M	CF 15K 5% 1/8W
R333	22215-104M	CF 100K 5% 1/8W	R380	22215-223M	CF 22K 5% 1/8W
R334	22215-105M	CF 1M 5% 1/8W	R381	22215-272M	CF 2K7 5% 1/8W
R335	22215-273M	CF 27K 5% 1/8W	R382	22215-153M	CF 15K 5% 1/8W
R336	22215-223M	CF 22K 5% 1/8W	R383	22215-103M	CF 10K 5% 1/8W
R337	22215-224M	CF 220K 5% 1/8W	R384	22215-472M	CF 4K7 5% 1/8W
R338	22215-103M	CF 10K 5% 1/8W	R385	22215-103M	CF 10K 5% 1/8W
R339	22215-562M	CF 5K6 5% 1/8W	R386	22215-391M	CF 390R 5% 1/8W
R340	22215-473M	CF 47K 5% 1/8W	R387	22215-223M	CF 22K 5% 1/8W
R341	22215-473M	CF 47K 5% 1/8W	R388	23245-3304	MOF 33R 5% 1W
R342	22215-202M	CF 2K 5% 1/8W	R389	22215-153M	CF 15K 5% 1/8W
R343	22215-224M	CF 220K 5% 1/8W	R401	23755-3304	MOF 33R 5% 2W
R344	22215-223M	CF 22K 5% 1/8W	R402	22245-3341	CF 330K 5% 1/2W
R345	22215-223M	CF 22K 5% 1/8W	R403	22215-332M	CF 3K3 5% 1/8W
R346	22215-224M	CF 220K 5% 1/8W	R404	22215-683M	CF 68K 5% 1/8W
R347	22245-2211	CF 220R 5% 1/2W	R405	22215-123M	CF 12K 5% 1/8W
R348	22215-272M	CF 2K7 5% 1/8W	R406	22215-821M	CF 820R 5% 1/8W
R349	23225-109M	MOF 1R 5% 1/4W	R407	22215-222M	CF 2K2 5% 1/8W
R350	22215-103M	CF 10K 5% 1/8W	R408	22225-561M	CF 560R 5% 1/4W
R351	22215-222M	CF 2K2 5% 1/8W	R409	23765-3395	MOF 3R3 5% 3W
R352	22215-473M	CF 47K 5% 1/8W	R410	22245-2201	CF 22R 5% 1/2W
R353	22215-133M	CF 13K 5% 1/8W	R411	23755-3314	MOF 330R 5% 2W
R354	22215-152M	CF 1K5 5% 1/8W	R412	22215-153M	CF 15K 5% 1/8W
R355	22215-512M	CF 5K1 5% 1/8W	R425	23225-688M	MOF 0.68R 5% 1/4W
R356	22215-123M	CF 12K 5% 1/8W	R429	22215-103M	CF 10K 5% 1/8W
R357	22215-474M	CF 470K 5% 1/8W	R430	22215-224M	CF 220K 5% 1/8W
R358	22215-103M	CF 10K 5% 1/8W	R431	22215-105M	CF 1M 5% 1/8W
R359	22215-562M	CF 5K6 5% 1/8W	R436	23225-109M	MOF 1R 5% 1/4W
R360	22215-102M	CF 1K 5% 1/8W	R437	22225-394M	CF 390K 5% 1/4W
R361	22215-100M	CF 10R 5% 1/8W	R439	22215-103M	CF 10K 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R440	22225-103M	CF 10K 5% 1/4W	R511	22225-432M	CF 4K3 5% 1/4W
R441	22215-103M	CF 10K 5% 1/8W	R512	22215-271M	CF 270R 5% 1/8W
R448	22225-104M	CF 100K 5% 1/4W	R513	22225-102M	CF 1K 5% 1/4W
R450	22215-153M	CF 15K 5% 1/8W	R514	22225-102M	CF 1K 5% 1/4W
R451	23225-109M	MOF 1R 5% 1/4W	R515	22215-122M	CF 1K2 5% 1/8W
R452	22225-510M	CF 51R 5% 1/4W	R516	22215-122M	CF 1K2 5% 1/8W
• R453	23225-109M	MOF 1R 5% 1/4W	R517	22215-102M	CF 1K 5% 1/8W
R455	22215-103M	CF 10K 5% 1/8W	R518	22215-472M	CF 4K7 5% 1/8W
R457	23A11-183M	MF 18K 1% 1/8W	R519	22215-472M	CF 4K7 5% 1/8W
R458	23A11-133M	MF 13K 1% 1/8W	R520	22215-472M	CF 4K7 5% 1/8W
R459	23A11-682M	MF 6K8 1% 1/8W	R521	22215-472M	CF 4K7 5% 1/8W
R464	22215-303M	CF 30K 5% 1/8W	R522	22215-472M	CF 4K7 5% 1/8W
R465	22215-103M	CF 10K 5% 1/8W	R523	22215-472M	CF 4K7 5% 1/8W
R466	22225-510M	CF 51R 5% 1/4W	R524	22215-472M	CF 4K7 5% 1/8W
R467	22215-563M	CF 56K 5% 1/8W	R525	22215-472M	CF 4K7 5% 1/8W
R468	22215-103M	CF 10K 5% 1/8W	R526	22215-472M	CF 4K7 5% 1/8W
R469	22215-105M	CF 1M 5% 1/8W	R527	22215-102M	CF 1K 5% 1/8W
R471	23A11-333M	MF 33K 1% 1/8W	R528	22225-100M	CF 10R 5% 1/4W
R472	22215-683M	CF 68K 5% 1/8W	R529	22215-243M	CF 24K 5% 1/8W
R473	22215-182M	CF 1K8 5% 1/8W	R530	22215-103M	CF 10K 5% 1/8W
R474	22245-3331	CF 33K 5% 1/2W	R531	22215-102M	CF 1K 5% 1/8W
R475	22225-105M	CF 1M 5% 1/4W	R532	22215-473M	CF 47K 5% 1/8W
R476	22225-105M	CF 1M 5% 1/4W	R533	22215-822M	CF 8K2 5% 1/8W
R477	22225-105M	CF 1M 5% 1/4W	R534	22215-473M	CF 47K 5% 1/8W
R478	22225-681M	CF 680R 5% 1/4W	R535	22215-471M	CF 470R 5% 1/8W
R480	22245-1841	CF 180K 5% 1/2W	R536	22215-472M	CF 4K7 5% 1/8W
R481	22215-184M	CF 180K 5% 1/8W	R537	22225-272M	CF 2K7 5% 1/4W
R483	22215-103M	CF 10K 5% 1/8W	R538	22225-101M	CF 100R 5% 1/4W
R484	22225-273M	CF 27K 5% 1/4W	R539	22215-562M	CF 5K6 5% 1/8W
R485	22225-913M	CF 91K 5% 1/4W	R541	22215-102M	CF 1K 5% 1/8W
R486	22225-102M	CF 1K 5% 1/4W	R555	23225-109M	MOF 1R 5% 1/4W
R487	22225-334M	CF 330K 5% 1/4W	R600	22215-102M	CF 1K 5% 1/8W
R490	22215-102M	CF 1K 5% 1/8W	R601	22215-471M	CF 470R 5% 1/8W
R492	22215-102M	CF 1K 5% 1/8W	R602	22215-470M	CF 47R 5% 1/8W
R496	22215-151M	CF 150R 5% 1/8W	R603	22215-101M	CF 100R 5% 1/8W
R497	22225-332M	CF 3K3 5% 1/4W	R604	22215-470M	CF 47R 5% 1/8W
R501	22215-472M	CF 4K7 5% 1/8W	R605	22225-101M	CF 100R 5% 1/4W
R502	22215-472M	CF 4K7 5% 1/8W	R607	22215-473M	CF 47K 5% 1/8W
R503	22215-153M	CF 15K 5% 1/8W	R608	22225-101M	CF 100R 5% 1/4W
R504	22215-103M	CF 10K 5% 1/8W	R609	22215-332M	CF 3K3 5% 1/8W
R505	22225-102M	CF 1K 5% 1/4W	R610	22215-472M	CF 4K7 5% 1/8W
R506	22215-102M	CF 1K 5% 1/8W	R611	22215-473M	CF 47K 5% 1/8W
R507	22225-471M	CF 470R 5% 1/4W	R612	22215-330M	CF 33R 5% 1/8W
R508	22225-472M	CF 4K7 5% 1/4W	R613	22215-123M	CF 12K 5% 1/8W
R509	22225-472M	CF 4K7 5% 1/4W	R614	22215-470M	CF 47R 5% 1/8W
R510	22225-472M	CF 4K7 5% 1/4W	R616	22215-102M	CF 1K 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R617	22215-561M	CF 560R 5% 1/8W	R691	22215-473M	CF 47K 5% 1/8W
R618	22215-561M	CF 560R 5% 1/8W	R692	22215-473M	CF 47K 5% 1/8W
R619	22215-561M	CF 560R 5% 1/8W	R693	22215-473M	CF 47K 5% 1/8W
R620	22215-473M	CF 47K 5% 1/8W	R694	22215-103M	CF 10K 5% 1/8W
R621	22215-750M	CF 75R 5% 1/8W	R695	22215-331M	CF 330R 5% 1/8W
R622	22215-752M	CF 7K5 5% 1/8W	R696	22215-101M	CF 100R 5% 1/8W
R623	22215-750M	CF 75R 5% 1/8W	R697	22215-101M	CF 100R 5% 1/8W
R624	22215-750M	CF 75R 5% 1/8W	R698	22215-101M	CF 100R 5% 1/8W
R625	22215-750M	CF 75R 5% 1/8W	R699	22215-101M	CF 100R 5% 1/8W
R627	22215-121M	CF 120R 5% 1/8W	R708	22225-100M	CF 10R 5% 1/4W
R628	22215-330M	CF 33R 5% 1/8W	R901	23A11S032M	MF 19K2 1% 1/8W
R631	22215-750M	CF 75R 5% 1/8W	R902	23A11S032M	MF 19K2 1% 1/8W
R632	22215-750M	CF 75R 5% 1/8W	R903	23A11-123M	MF 12K 1% 1/8W
R636	22215-102M	CF 1K 5% 1/8W	R904	23A11-123M	MF 12K 1% 1/8W
R637	22215-121M	CF 120R 5% 1/8W	R906	23A11S010M	MF 5K23 1% 1/8W
R638	22215-102M	CF 1K 5% 1/8W	VARIABLE RESISTOR		
R639	22215-471M	CF 470R 5% 1/8W	VR101	25B20-502B	POT 5KB 0.1W
R641	22215-303M	CF 30K 5% 1/8W	VR102	25B20-102B	POT 1KB 0.1W
R646	22215-102M	CF 1K 5% 1/8W	VR301	25AA0-103B	POT 10KB 0.1W
R648	22215-121M	CF 120R 5% 1/8W	VR302	25B20-102B	POT 1KB 0.1W
R653	22215-103M	CF 10K 5% 1/8W	VR303	25AA0-103B	POT 10KB 0.1W
R657	22215-224M	CF 220K 5% 1/8W	VR403	25B20-103B	POT 10KB 0.1W
R658	22215-224M	CF 220K 5% 1/8W	CAPACITOR		
R659	22215-224M	CF 220K 5% 1/8W	C101	42A77-474F	SAFETY 0.47U 20% AC250V
R660	22215-224M	CF 220K 5% 1/8W	C102	42D77-2224	SAFETY 2200P 20%
R661	22215-224M	CF 220K 5% 1/8W	C103	42D77-2224	SAFETY 2200P 20%
R662	22215-224M	CF 220K 5% 1/8W	C104	28CD7-2217	EL 220U 20% 400V
R663	22215-223M	CF 22K 5% 1/8W	C105	34175-1034	MPE 0.01U 5% 630V
R664	22215-223M	CF 22K 5% 1/8W	C106	34175-1034	MPE 0.01U 5% 630V
R665	22215-223M	CF 22K 5% 1/8W	C108	28A47-4711	EL 470U 20% 25V
R666	22215-102M	CF 1K 5% 1/8W	C111	28H47-101R	EL 100U 20% 25V
R668	22215-102M	CF 1K 5% 1/8W	C112	39546-221R	CE 220P 10% 1KV
R670	22215-102M	CF 1K 5% 1/8W	C113	39146-332R	CE 3300P 10% 50V
R672	22215-332M	CF 3K3 5% 1/8W	C114	39B87C104R	ML 0.1U 20% 50V
R673	22215-332M	CF 3K3 5% 1/8W	C115	28H47-101R	EL 100U 20% 25V
R674	22215-332M	CF 3K3 5% 1/8W	C116	31115-332R	PEI 3300P 5% 50V
R675	23245-1294	MOF 1R2 5% 1W	C117	39146-102R	CE 1000P 10% 50V
R676	22245-1211	CF 120R 5% 1/2W	C118	31115-102R	PEI 1000P 5% 50V
R677	22215-224M	CF 220K 5% 1/8W	C119	283A7-1015	EL 100U 20% 200V
R678	22245-1211	CF 120R 5% 1/2W	C120	39446-1038	CE 0.01U 10% 500V
R679	22215-224M	CF 220K 5% 1/8W	C121	28A97-1011	EL 100U 20% 100V
R680	22245-1211	CF 120R 5% 1/2W	C122	39546-470R	CE 47P 10% 1KV Y5P
R681	22215-224M	CF 220K 5% 1/8W			
R682	22245-4701	CF 47R 5% 1/2W			
R683	22245-1041	CF 100K 5% 1/2W			
R690	22215-242M	CF 2K4 5% 1/8W			

Location	Part No.	Description	Location	Part No.	Description
C123	28A47-4711	EL 470U 20% 25V	C308	28H67-100R	EL 10U 20% 50V
C125	28A37-1021	EL 1000U 20% 16V	C309	28H67-100R	EL 10U 20% 50V
C126	39546-470R	CE 47P 10% 1KV Y5P	C310	28H67-100R	EL 10U 20% 50V
C128	28H37-1021	EL 1000U 20% 16V	C311	38115-101R	CE 100P 5% 50V NPO
C129	28H37-331R	EL 330U 20% 16V	C312	39B87C104R	ML 0.1U 20% 50V
C130	28H37-470R	EL 47U 20% 16V	C313	39B87C104R	ML 0.1U 20% 50V
C131	28A97-1011	EL 100U 20% 100V	C314	28H67-229R	EL 2U2 20% 50V
C132	28A47-4711	EL 470U 20% 25V	C315	28H67-109R	EL 1U 20% 50V
C133	42D77-4725	SAFETY 4700P 20%	C316	39B87C104R	ML 0.1U 20% 50V
C135	39B87C104R	ML 0.1U 20% 50V	C317	39446-681R	CE 680P 10% 500V
C136	39B87C104R	ML 0.1U 20% 50V	C318	34145-1544	MPE 0.15U 5% 250V
C137	28HB7-4701	EL 47U 20% 250V	C319	28H37-471R	EL 470U 20% 16V
C138	28A47-4711	EL 470U 20% 25V	C320	39B87C104R	ML 0.1U 20% 50V
C139	38115-101R	CE 100P 5% 50V NPO	C321	39B87C104R	ML 0.1U 20% 50V
C140	28A47-151R	EL 150U 20% 25V	C322	28H67-100R	EL 10U 20% 50V
C141	28H37-331R	EL 330U 20% 16V	C323	39B87C104R	ML 0.1U 20% 50V
C142	28H37-101R	EL 100U 20% 16V	C324	28H47-470R	EL 47U 20% 25V
C151	28H37-101R	EL 100U 20% 16V	C325	28H67-109R	EL 1U 20% 50V
C153	28H37-471R	EL 470U 20% 16V	C326	28HB7-109R	EL 1U 20% 250V
C201	39146-681R	CE 680P 10% 50V	C327	39187-103R	CE 0.01U 20% 50V
C205	28H47-4711	EL 470U 20% 25V	C328	28H37-471R	EL 470U 20% 16V
C206	39B87C104R	ML 0.1U 20% 50V	C329	28H67-109R	EL 1U 20% 50V
C207	346B5-224R	MPE 0.22U 5% 63V	C330	28H67-479R	EL 4U7 20% 50V
C208	39B87C104R	ML 0.1U 20% 50V	C331	39446-102R	CE 1000P 10% 500V
C215	31115-473R	PEI 0.047U 5% 50V	C332	28H37-470R	EL 47U 20% 16V
C218	39B87C104R	ML 0.1U 20% 50V	C333	28H67-479R	EL 4U7 20% 50V
C221	39B87C104R	ML 0.1U 20% 50V	C334	39187-103R	CE 0.01U 20% 50V
C222	39146-102R	CE 1000P 10% 50V	C335	28H67-100R	EL 10U 20% 50V
C223	28H67-100R	EL 10U 20% 50V	C337	39B87C104R	ML 0.1U 20% 50V
C224	28H47-4711	EL 470U 20% 25V	C338	39187-103R	CE 0.01U 20% 50V
C225	28H57-101R	EL 100U 20% 35V	C339	34145-335C	MPE 3U3 5% 250V
C234	39B87C104R	ML 0.1U 20% 50V	C340	28HB7-2201	EL 22U 20% 250V
C236	28457-479R	EL 4U7 20% 35V	C341	34145-4734	MPE 0.047U 5% 250V
C238	39B87C104R	ML 0.1U 20% 50V	C342	32115-102R	PEN 1000P 5% 50V
C239	39B87C104R	ML 0.1U 20% 50V	C343	32115-103R	PEN 0.01U 5% 50V
C240	39146-102R	CE 1000P 10% 50V	C344	38115-220R	CE 22P 5% 50V NPO
C241	39B87C104R	ML 0.1U 20% 50V	C345	375B5-472CH	PPS 4700P 5% 2KV
C247	39146-471R	CE 470P 10% 50V	C348	28H97-1011	EL 100U 20% 100V
C271	39B87C104R	ML 0.1U 20% 50V	C349	39446-102R	CE 1000P 10% 500V
C301	39B87C104R	ML 0.1U 20% 50V	C350	35155A2246	MPP 0.22U 5% 400V
C302	39B87C104R	ML 0.1U 20% 50V	C351	39B87C104R	ML 0.1U 20% 50V
C303	39B87C104R	ML 0.1U 20% 50V	C353	39446-472R	CE 4700P 10% 500V
C304	346B5-334R	MPE 0.33U 5% 63V	C354	35155-6836	MPP 0.068U 5% 400V
C305	28H37-470R	EL 47U 20% 16V	C355	39146-102R	CE 1000P 10% 50V
C306	39B87C104R	ML 0.1U 20% 50V	C356	35155-1847	MPP 0.18U 5% 400V
C307	39B87C104R	ML 0.1U 20% 50V	C357	39146-471R	CE 470P 10% 50V

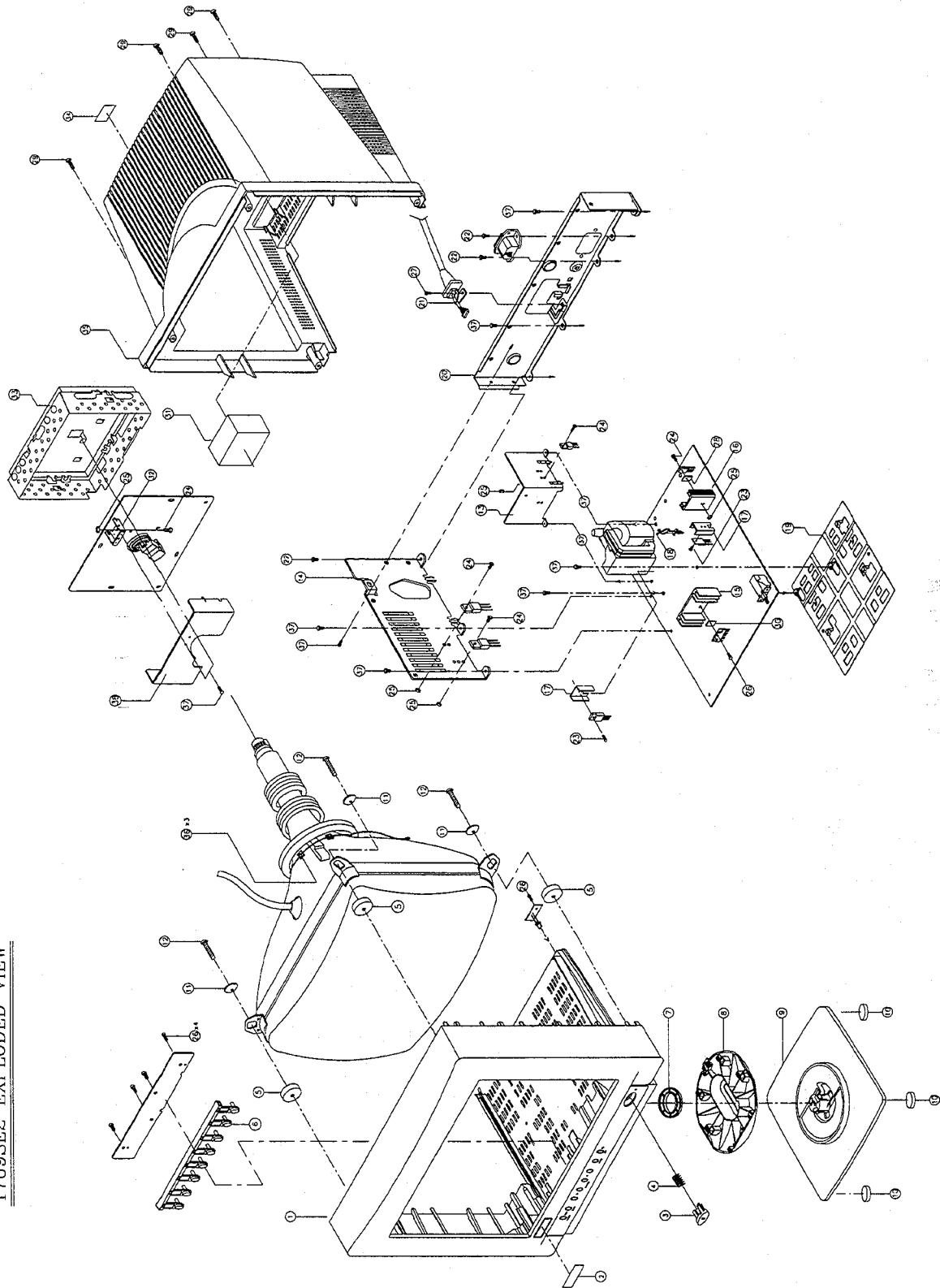
Location	Part No.	Description	Location	Part No.	Description
C358	35155-474C	MPP 0.47U 5% 400V	C507	39146-102R	CE 1000P 10% 50V
C359	39146-471R	CE 470P 10% 50V	C508	38115-470R	CE 47P 5% 50V NPO
C360	28H67-220R	EL 22U 20% 50V	C509	28H67-479R	EL 4U7 20% 50V
C361	35145-125C	MPP 1U2 5% 250V	C510	28H67-479R	EL 4U7 20% 50V
C362	39146-471R	CE 470P 10% 50V	C511	28H67-479R	EL 4U7 20% 50V
C380	39B87C104R	ML 0.1U 20% 50V	C512	28H67-479R	EL 4U7 20% 50V
C390	28H37-470R	EL 47U 20% 16V	C513	28H67-479R	EL 4U7 20% 50V
C391	39146-331R	CE 330P 10% 50V	C514	28H67-479R	EL 4U7 20% 50V
C392	39B56E332R	ML 3300P 10% 50V	C515	28H67-479R	EL 4U7 20% 50V
C393	39B87C104R	ML 0.1U 20% 50V	C516	28H67-479R	EL 4U7 20% 50V
C394	39B87C104R	ML 0.1U 20% 50V	C517	28H67-479R	EL 4U7 20% 50V
C396	39146-102R	CE 1000P 10% 50V	C518	28H67-479R	EL 4U7 20% 50V
C398	39146-102R	CE 1000P 10% 50V	C520	39187-103R	CE 0.01U 20% 50V
C401	39446-221R	CE 220P 10% 500V	C521	28H47-101R	EL 100U 20% 25V
C402	34145-1534	MPE 0.015U 5% 250V	C522	39B87C104R	ML 0.1U 20% 50V
C403	28H67-100R	EL 10U 20% 50V	C523	28H37-470R	EL 47U 20% 16V
C404	28467-229R	EL 2U2 20% 50V	C524	39187-103R	CE 0.01U 20% 50V
C405	28457-479R	EL 4U7 20% 35V	C525	31115-102R	PEI 1000P 5% 50V
C406	28HB7-2201	EL 22U 20% 250V	C526	31115-102R	PEI 1000P 5% 50V
C407	35145-6847	MPP 0.68U 5% 250V	C527	39187-103R	CE 0.01U 20% 50V
C408	34145-2246	MPE 0.22U 5% 250V	C601	28H37-331R	EL 330U 20% 16V
C409	39446-471R	CE 470P 10% 500V	C603	39999-104R	CE 0.1U +80-20% 50V
C410	375B5-1827H	PPS 1800P 5% 2KV	C604	28H67-100R	EL 10U 20% 50V
C411	34125-1043	MPE 0.1U 5% 100V	C605	28H67-100R	EL 10U 20% 50V
C412	28HE7-3391	EL 3U3 20% 450V	C606	39999-104R	CE 0.1U +80-20% 50V
C413	39187-103R	CE 0.01U 20% 50V	C607	39999-104R	CE 0.1U +80-20% 50V
C414	39146-102R	CE 1000P 10% 50V	C608	28H67-100R	EL 10U 20% 50V
C415	39B87C104R	ML 0.1U 20% 50V	C609	39999-104R	CE 0.1U +80-20% 50V
C438	28H67-100R	EL 10U 20% 50V	C610	39999-104R	CE 0.1U +80-20% 50V
C439	28HB7-1001	EL 10U 20% 250V	C611	39999-104R	CE 0.1U +80-20% 50V
C440	39546-1038	CE 0.01U 10% 1KV	C612	39187-103R	CE 0.01U 20% 50V
C442	28H67-109R	EL 1U 20% 50V	C613	28H67-100R	EL 10U 20% 50V
C443	39446-1038	CE 0.01U 10% 500V	C614	39187-103R	CE 0.01U 20% 50V
C444	28H67-479R	EL 4U7 20% 50V	C615	38115-470R	CE 47P 5% 50V NPO
C445	39146-152R	CE 1500P 10% 50V	C616	28H67-229R	EL 2U2 20% 50V
C447	39446-1038	CE 0.01U 10% 500V	C617	39999-104R	CE 0.1U +80-20% 50V
C455	39187-103R	CE 0.01U 20% 50V	C618	28H67-229R	EL 2U2 20% 50V
C456	38596-220R	CE 22P 10% 1KV	C619	39999-104R	CE 0.1U +80-20% 50V
C457	28H67-100R	EL 10U 20% 50V	C620	28H27-221R	EL 220U 20% 10V
C460	28H67-109R	EL 1U 20% 50V	C621	39B87C104R	ML 0.1U 20% 50V
C501	28H67-479R	EL 4U7 20% 50V	C622	28H67-229R	EL 2U2 20% 50V
C502	28H67-479R	EL 4U7 20% 50V	C623	28H67-109R	EL 1U 20% 50V
C503	28H67-479R	EL 4U7 20% 50V	C624	39187-103R	CE 0.01U 20% 50V
C504	28H67-100R	EL 10U 20% 50V	C625	39999-104R	CE 0.1U +80-20% 50V
C505	38196-330R	CE 33P 10% 50V	C627	39187-103R	CE 0.01U 20% 50V
C506	38196-330R	CE 33P 10% 50V	C628	39187-103R	CE 0.01U 20% 50V

Location	Part No.	Description	Location	Part No.	Description
C630	39E56E103R	ML 0.01U 10% 100V	L402	46N00-0510	COIL CHOKE 5mH EI-22
C631	39E56E103R	ML 0.01U 10% 100V	L602	45B0K-109M	COIL PEAKING 1U
C638	39B87C104R	ML 0.1U 20% 50V	L603	45B0K-109M	COIL PEAKING 1U
C640	28H37-470R	EL 47U 20% 16V	L604	45B0K-109M	COIL PEAKING 1U
C641	28A97-4701	EL 47U 20% 100V	L612	45B0K-338M	COIL PEAKING 0.33U
C646	39187-103R	CE 0.01U 20% 50V	L613	45B0K-338M	COIL PEAKING 0.33U
C648	34125-2244	MPE 0.22U 5% 100V	L614	45B0K-338M	COIL PEAKING 0.33U
C649	34125-2244	MPE 0.22U 5% 100V	TRANSFORMERS		
C650	34125-2244	MPE 0.22U 5% 100V	T101	47S00-0830T	XFMR SPS EE-42/15
C651	39446-472R	CE 4700P 10% 500V	T301	47P10-0100	XFMR PINCUSHING EI-25
C652	28HB7-109R	EL 1U 20% 250V	T302	47F15-0040	XFMR FBT DUMMY
C654	39187-103R	CE 0.01U 20% 50V	T303	47D10-0340L	XFMR DRIVE EI-22
C656	39187-103R	CE 0.01U 20% 50V	T401	47J00-0070	XFMR FOCUS EI-22
C658	39187-103R	CE 0.01U 20% 50V	T402	47D10-0290L	XFMR DRIVE EI-19
C659	39187-103R	CE 0.01U 20% 50V	T402	47F13-0720S	XFMR FBT
C660	39187-103R	CE 0.01U 20% 50V			W/FOCUS/SCREEN/CB BLOCK
C661	39446-102R	CE 1000P 10% 500V			
C662	39687-1038	CE 0.01U 20% 2KV			
C673	39E56E103R	ML 0.01U 10% 100V			
C676	28H27-221R	EL 220U 20% 10V			
C680	39B87C104R	ML 0.1U 20% 50V			
C681	39146-472R	CE 4700P 10% 50V			
C682	39187-103R	CE 0.01U 20% 50V			
C688	38115-470R	CE 47P 5% 50V NPO			
C690	39146-471R	CE 470P 10% 50V			
C691	39B87C104R	ML 0.1U 20% 50V			
C693	39146-222R	CE 2200P 10% 50V			
C694	39446-471R	CE 470P 10% 500V			
C695	39187-103R	CE 0.01U 20% 50V			
COILS					
L101	45M1K-4704	COIL CHOKE 47U			
L102	47E00-0240	XFMR EMI ET-24			
L103	47E00-0240	XFMR EMI ET-24			
L104	45M1K-4704	COIL CHOKE 47U			
L106	45M1K-4704	COIL CHOKE 47U			
L107	45M1K-4704	COIL CHOKE 47U			
L108	45M1K-4704	COIL CHOKE 47U			
L109	45B0K-220T	COIL PEAKING 22U			
L301	46L00-0750L	COIL LINEAR 5.7uH			
L302	45M1K-4704	COIL CHOKE 47U			
L303	46N00-0140	COIL LINE CHOKE 2.5mH			
L304	46N00-0120	COIL LINE CHOKE 1mH			
L305	46N00-0120	COIL LINE CHOKE 1mH			
L401	45M1K-4704	COIL CHOKE 47U			

Location	Part No.	Description
ITEGRAED CIRCUITS		
● IC101	17A06-150G	IC LINEAR 8P DEFLECTION3842
! IC102	17A07-171H	IC LINEAR VOTAGE REG. XC62AP5002LH 3P
IC103	17B21-090B	IC PHOTO OPTOCUPLER PS2561-M/TLP721F-GR
IC104	17A07-031D	IC LINEAR 3P VOLTAGE REGULATOR 431
● ! IC201	17A06-290C	IC LINEAR 7P DEFLECTIONLA7840
● ! IC301	17A06-280B	IC LINEAR 30P DEFLECTION C1883 (ACT)
IC302	17A11-040H	IC LINEAR O/P AMP LM3588P
● IC303	17A06-190G	IC LINEAR 8P DEFLECTIONUC3843B
IC304	17A11-030H	IC LINEAR O/P AMP HA17393/2903 8P
! IC501	16P40-029F	IC MICRO-PROCESSOR 40P 68P61 MASK ROM
IC502	16M08-009R	IC EEPROM AT24C04 (B)-10PC (BLANK) 8P
● IC503	16T14-023R	IC TTL 74LS74 14P
IC601	17A04-160V	IC LINEAR 36P VIDEO M52737SP
● IC603	16N20-004U	IC CONTROLLER 20P M35045-080SP
● IC604	17A23-002H	IC LINEAR DIGITAL/ANALOG 62359P 18P
● IC605	17A04-150K	IC LINEAR 11P VIDEO LM2405T
MISCELLANEOUS		
	20H17-23CB	CRT C-.26 NG M41KSX683X24(T)
	11S31-069A	PCB MAIN-S 330*297*1.6MM 1769E
	11S33-039A	PCB CRT-S 148*118*1.6MM1792SE
	11S39-027A	PCB LED-S 1765D 24*16.5*1.6MM
	11S3D-030A	PCB DISPLAY-S 172.5*27*1.6MM 1769E
	54B11-8206	WIRE BRAID 82CM
	54B15-1206	WIRE BRAID 12CM
	54C23B1601	WIRE TERMINAL 1015#18 16L BK W/TUBE
	56Q67-1803	POWER CORD IBMPC VDE 1M8-B 250V10A
	64C30-0100	SOCKET CRT COLOR-H
	65S10-2000	CABLE SIGNAL 15D-11H 3+6 200CM BLACK W/C
	65W3131610	CONN H WIRE 1007#24 3P 2.5 16L-T
	8200002000	CLAMP CABLE WC-6R
	859001-401	TAPE STRETCH FLIM W=500MM 1500 M/RL
	46G00-0085	COIL ROTATION (300T)
	46G00-0130	COIL DEGAUSSING (106T)
	19D0A-0010	DIODE LED BICOLOR W-DIFFUSED (L-119YGW)
E905	23A11S010M	MF 5K23 1% 1/8W
F101	49FB2-0A0A	FUSE SLOW 3.15A 250V (NORDIC)
● FBT	7905716000	FBT CLIPS (HV-1)
FD601	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP
FD602	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP
FD604	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP
RL101	53R001-008M	RELAY COIL DC12V 5A/250V (2-A)

Location	Part No.	Description
RL102	53R001-010	RELAY COIL DC5V 40NA/2A(2-C)
RP301	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W
RP302	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W
RP501	16K04-001Z	IC RES ARRAY 10K*3 5% 1/8W
RP502	16K09-004Z	IC RES ARRAY 3K3*8 5% 1/8W
RP503	16K06-001Z	IC RES ARRAY 3K3*5 5% 1/8W
RP504	16K08-001Z	IC RES ARRAY 10K*7 5% 1/8W
SG601	42S00-0201	SPARK GAP DSP-201M 200V20%
SG602	42S00-0201	SPARK GAP DSP-201M 200V20%
SG603	42S00-0201	SPARK GAP DSP-201M 200V20%
SG604	42S00-0301	SPARK GAP DSP-301N 300V30%
SW101	52P12-0030	SWITCH POWER 1P2T 5A250V
SW901	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW902	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW903	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW904	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW905	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW906	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW907	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW908	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
IC501	64DB3-0010	SOCKET IC SIP .6IN 2.54DOUBLE LP 40P
IC502	64D11-0010	SOCKET IC SIP .3IN 2.54 DOUBLE LP 8P
D108*2	46R00-0220	CORE RF BRH 4.1*4*1.6
D117*2	46R00-0220	CORE RF BRH 4.1*4*1.6
TP1	65W10Y3610	CONN H WIRE 1015#18 1P(F) 36L
TP302	65W10Y4211	CONN H WIRE 1015#18 1P (M) 42L
XL501	60R01-0010	RESONATOR 8MHZ
A-A'	54N23B0700	WIRE LEAD 1015#18 7L BK
BD101	15D68-F000	DI BRIDGE 4A 800V
CRT YOKE	7906950200	CABLE CLIP (WIRE MOUNTS)
CRT/B S/C-BACK BKT	54B12-1006	WIRE BRAID 10CM
M/B	7906656200	CABLE CLIPS D=11.5 L=50MM (TA11-50)
NTC101	26B00-0061	NTCR 5R 15% 5A P=7.5MM
P101	64P20-1010	SOCKET POWER
P104-CRT/B P605	65W81327B0	CONN H/T WIRE 1007#24 8P 2.5 27L-T W/C
P501-CRT/B P604	65WB1334D0	CONN H/T WIRE 1007#24 12P 2.5 34L-T
P608-M/B P402	65W35223B1	CONN H/T WIRE 1015#22 3P 7.5/5 23L-T W/C
P901	65W51317D0	CONN H/T WIRE 1007#24 5P 2.5 17L-T
PTC101	26A00-0080	PTCR 9R 20% 2P
Q104-DRAIN	46R00-0230	CORE RF BRH 4*4*2
C131 '-' TO C137 '-'	54N23B0700	WIRE LEAD 1015#18 7L BK

1769SE2 EXPLODED VIEW



1769SE2 EXPLODED VIEW PARTS LIST

NO.	PARTS NUMBER	DESCRIPTION	Q'TY
01	0820012000	FRONT PANEL	1
02	7140078400	NAME PLATE	1
03	7110022000	POWER KNOB	1
04	7306147110	POWER SPRING	1
05	7416883320	RUBBER WASHER	4
06	7110023000	FUNCTION KEY KNOB	1
07	0813611350	SWIVEL DISK	1
08	08113543A0	SWIVEL BOWL	1
09	08313533A0	SWIVEL BASE	1
10	7486236320	PU FOOT	4
11	7465576450	CRT WASHER	4
12	6776050220	CRT SCREW (PTØ5x22)	4
13	7513478201	HEAT SINK	1
14	7510030200	HEAT SINK (F.B.T.)	1
15	7516636220	HEAT SINK	1
16	7510036200	HEAT SINK	1
17	7514415000	HEAT SINK	2
18	7906656200	CABLE CLIPS	1
19	7621361140	BOTTOM PLATE	1
20	7621360040	BACK PLATE	1
21	7630004300	CABLE CLAME	1
22	6724A30100	TP SCREW (ø3x10)	3
23	6724426060	TP SCREW (ø2.6x6)	2
24	6720430080	MACHINEL SCREW (M3x8)	5
25	6740030240	NUT M3 (2.4t)	5

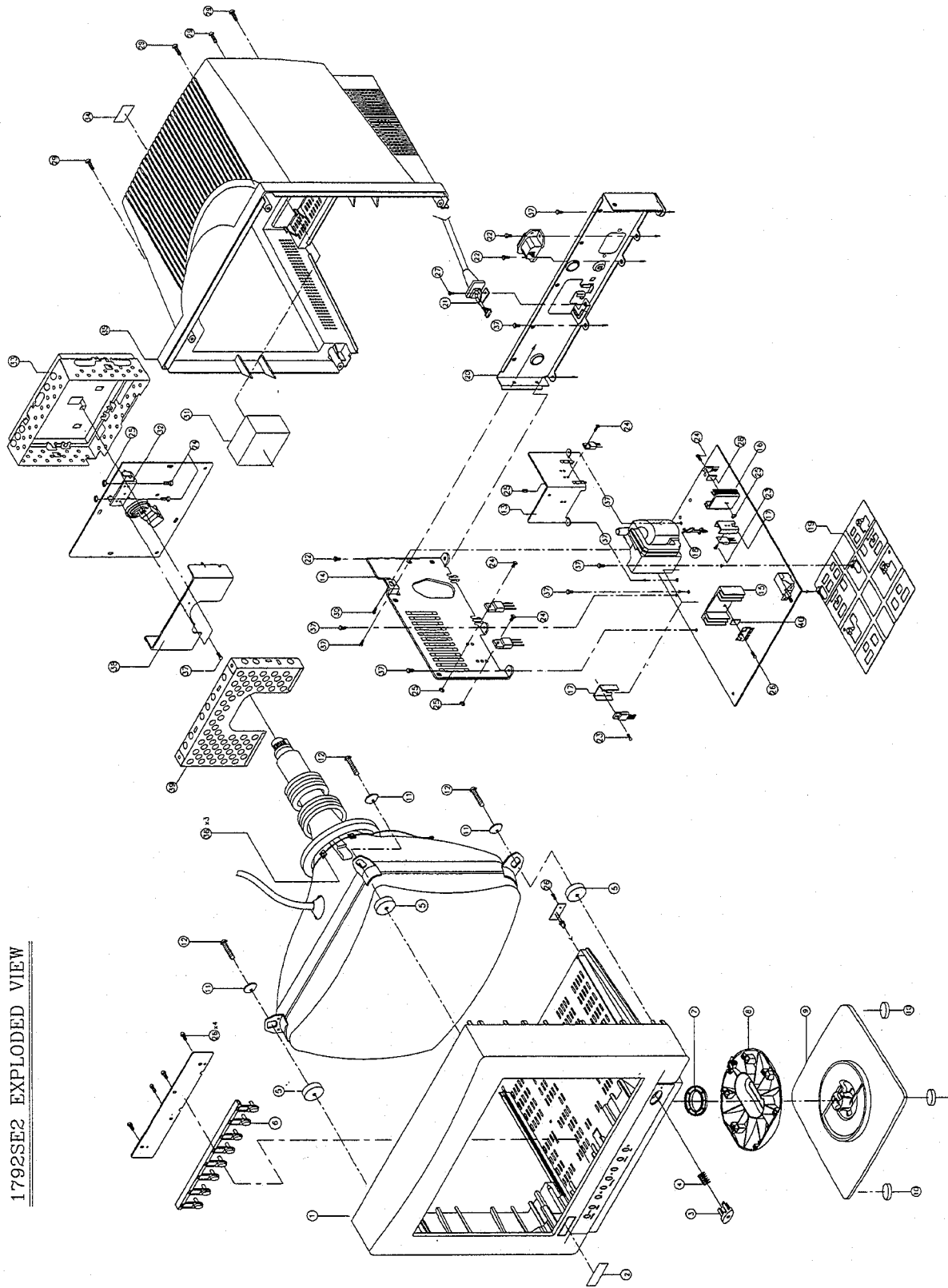
[illegible]

1792SE2 EXPLODED VIEW PARTS LIST

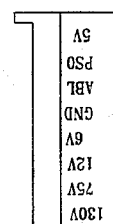
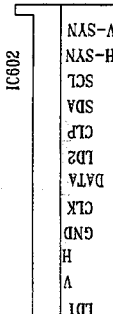
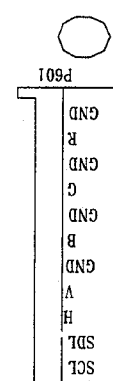
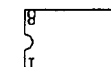
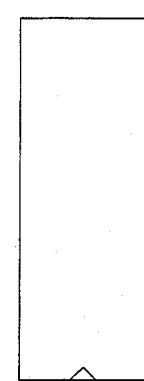
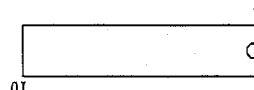
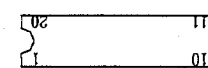
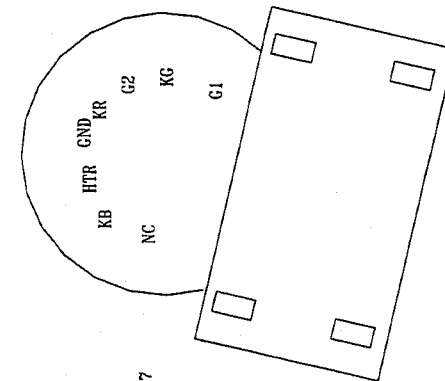
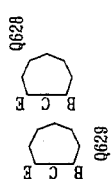
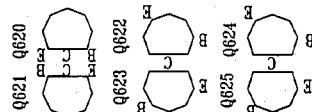
NO.	PARTS NUMBER	DESCRIPTION	Q'TY
01	0820012000	FRONT PANEL	1
02	7140078400	NAME PLATE	1
03	7110022000	POWER KNOB	1
04	7306147110	POWER SPRING	1
05	7416883320	RUBBER WASHER	4
06	7110023000	FUNCTION KEY KNOB	1
07	0813611350	SWIVEL DISK	1
08	08113543A0	SWIVEL BOWL	1
09	08313533A0	SWIVEL BASE	1
10	7486236320	PU FOOT	4
11	7465576450	CRT WASHER	4
12	6776050220	CRT SCREW (P1ø5x22)	4
13	7513478201	HEAT SINK	1
14	7510030200	HEAT SINK (F.B.T.)	1
15	7516636220	HEAT SINK	1
16	7510012200	HEAT SINK	1
17	7514415000	HEAT SINK	3
18	7906656200	CABLE CLIPS	1
19	7621361140	BOTTOM PLATE	1
20	7621360040	BACK PLATE	1
21	7630004300	CABLE CLAME	1
22	6724A30100	TP SCREW (ø3x10)	3
23	6724426060	TP SCREW (ø2.6x6)	3
24	6720430080	MACHINEL SCREW (M3x8)	6
25	6740030240	NUT M3 (2.4t)	6

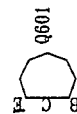
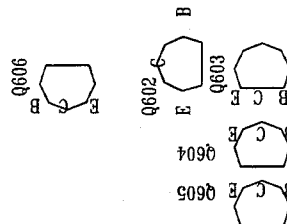
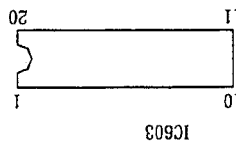
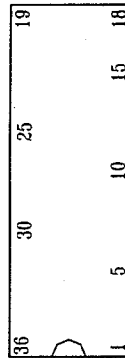
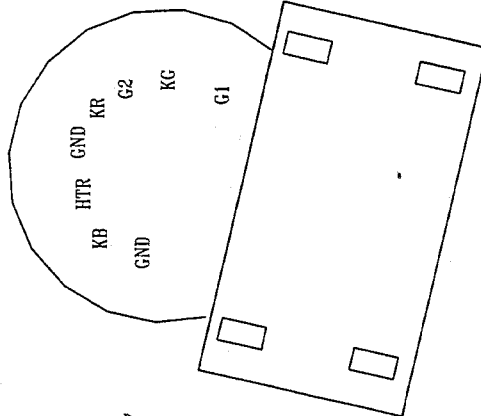
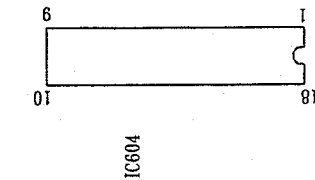
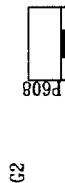
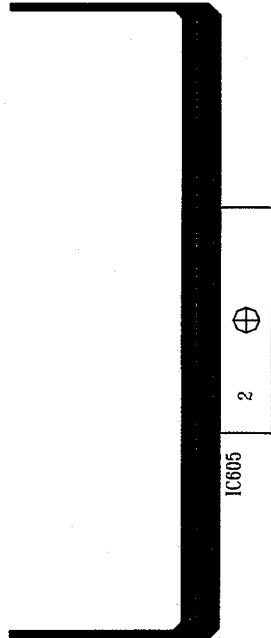
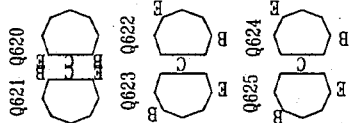
[illegible]

1792SE2 EXPLODED VIEW



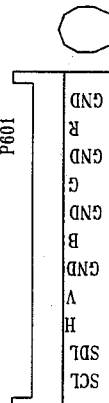
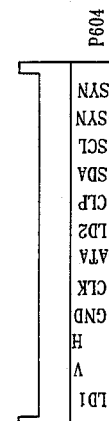
REV:B 06/06/97





P605

P601

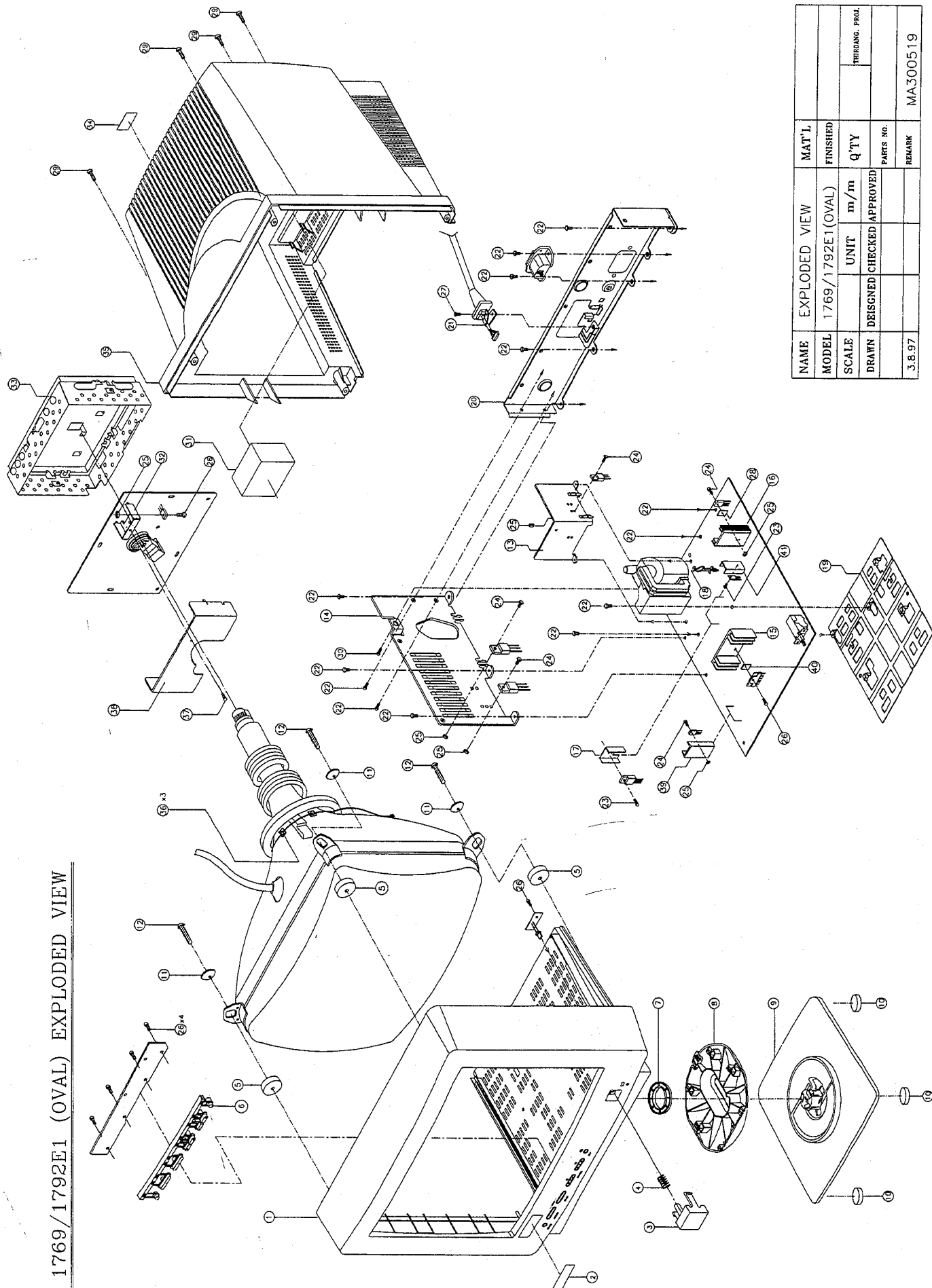


11S33-039A

COMP TEXT SIDE



1769/1792E1 (OVAL) EXPLODED VIEW

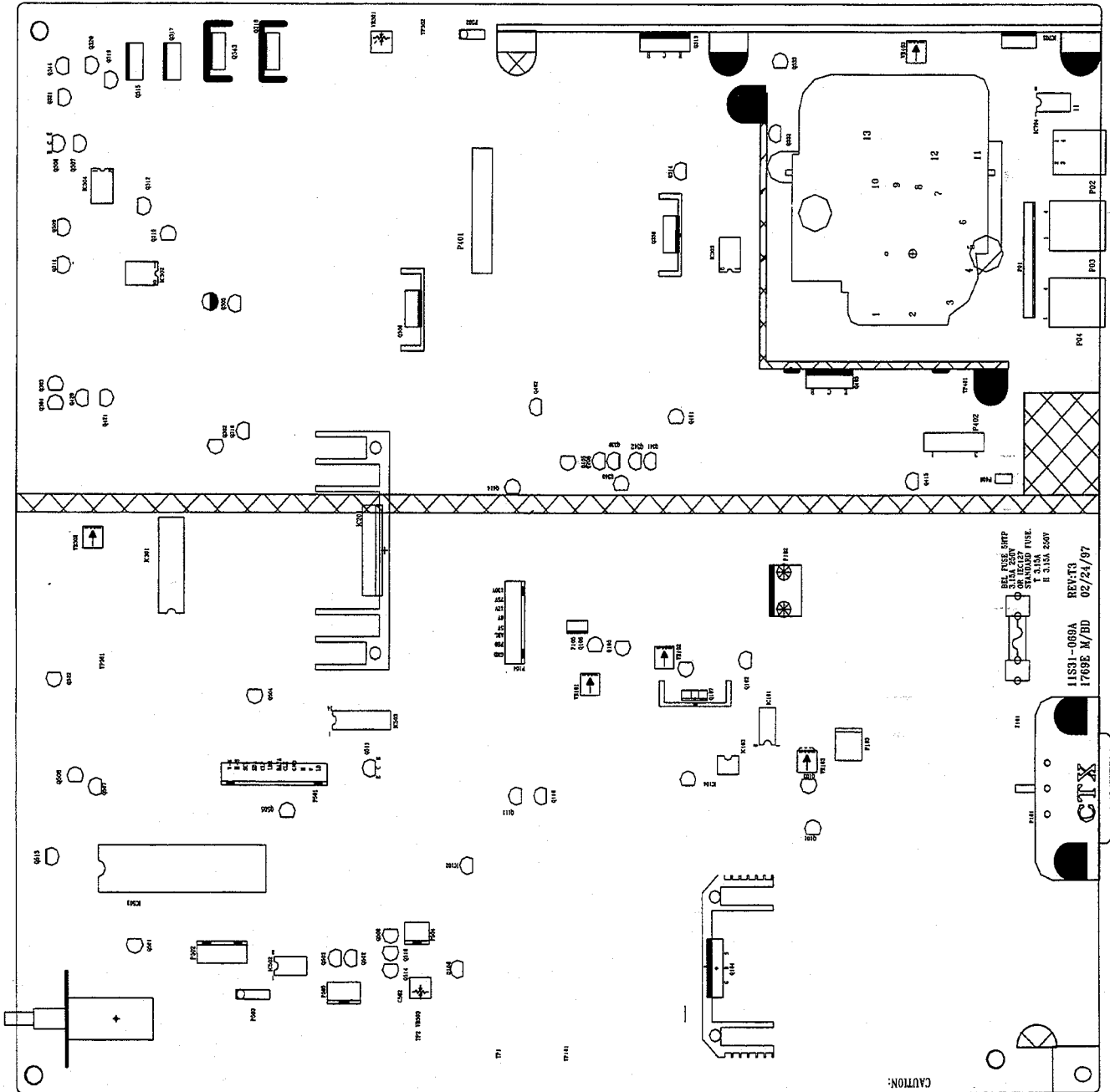


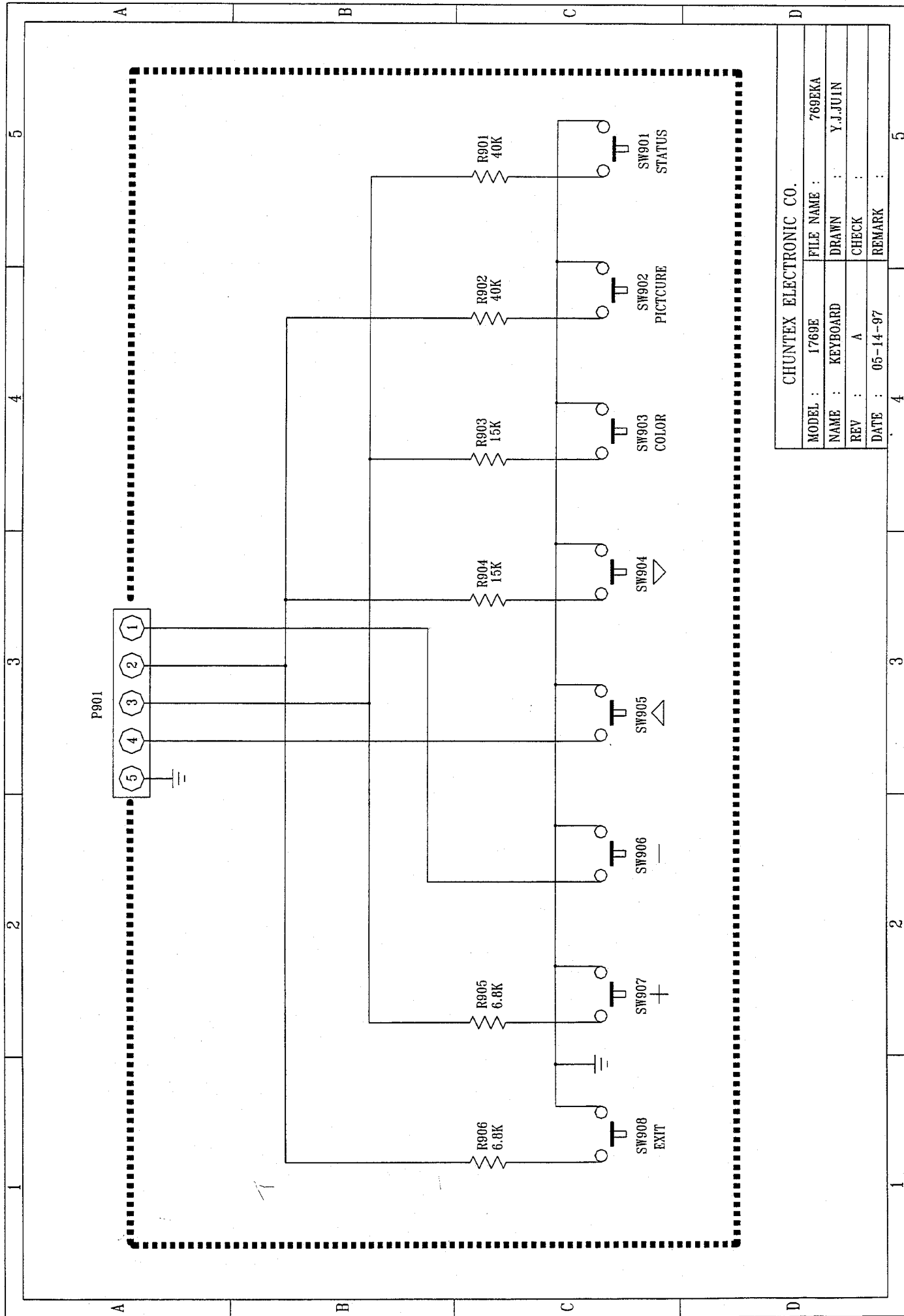
NAME	EXPLODED VIEW	MAT'L	FINISHED
MODEL	1769/1792E1(OVAL)		
SCALE	UNIT m/m	Q'TY	THURANG, PHOL
DRAWN	DESIGNED CHECKED APPROVED	PARTS NO.	
3.8.97		REMARK	MA300519

[illegible]

NO.	PARTS NUMBER	DESCRIPTION	Q'TY
01	0820023000	FRONT PANEL	1
02	7140078400	NAME PLATE	1
03	71137760A0	POWER KNOB	1
04	7306147110	POWER SPRING	1
05	7416883320	RUBBER WASHER	4
06	7110037000	FUNCTION KEY KNOB	1
07	0813611350	SWIVEL DISK	1
08	08113543A0	SWIVEL BOWL	1
09	08313533A0	SWIVEL BASE	1
10	7486236320	PU FOOT	4
11	7465576450	CRT WASHER	4
12	6776050220	CRT SCREW (PTø5x22)	4
13	7513478201	HEAT SINK	1
14	7510030200	HEAT SINK (F.B.T.)	1
15	7516636220	HEAT SINK	1
16	7510036200	HEAT SINK	1
17	7510006600	HEAT SINK	2
18	7906656200	CABLE CLIPS	1
19	7621361140	BOTTOM PLATE	1
20	7621360040	BACK PLATE	1
21	7630004300	CABLE CLAME	1
22	6724A30100	TP SCREW (ø3x10)	13
23	6724426060	TP SCREW (ø2.6x6)	3
24	6720430080	MACHINEL SCREW (M3x8)	5
25	6740030240	NUT M3 (2.4t)	6

[illegible]





CHUNTEX ELECTRONIC CO.

MODEL :	1769E	FILE NAME :	769EKA
NAME :	KEYBOARD	DRAWN :	Y.J.JUIN
REV :	A	CHECK :	
DATE :	05-14-97	REMARK :	

10.0 LAYOUT FOR MAIN COMPONENTS AND ADJUSTED

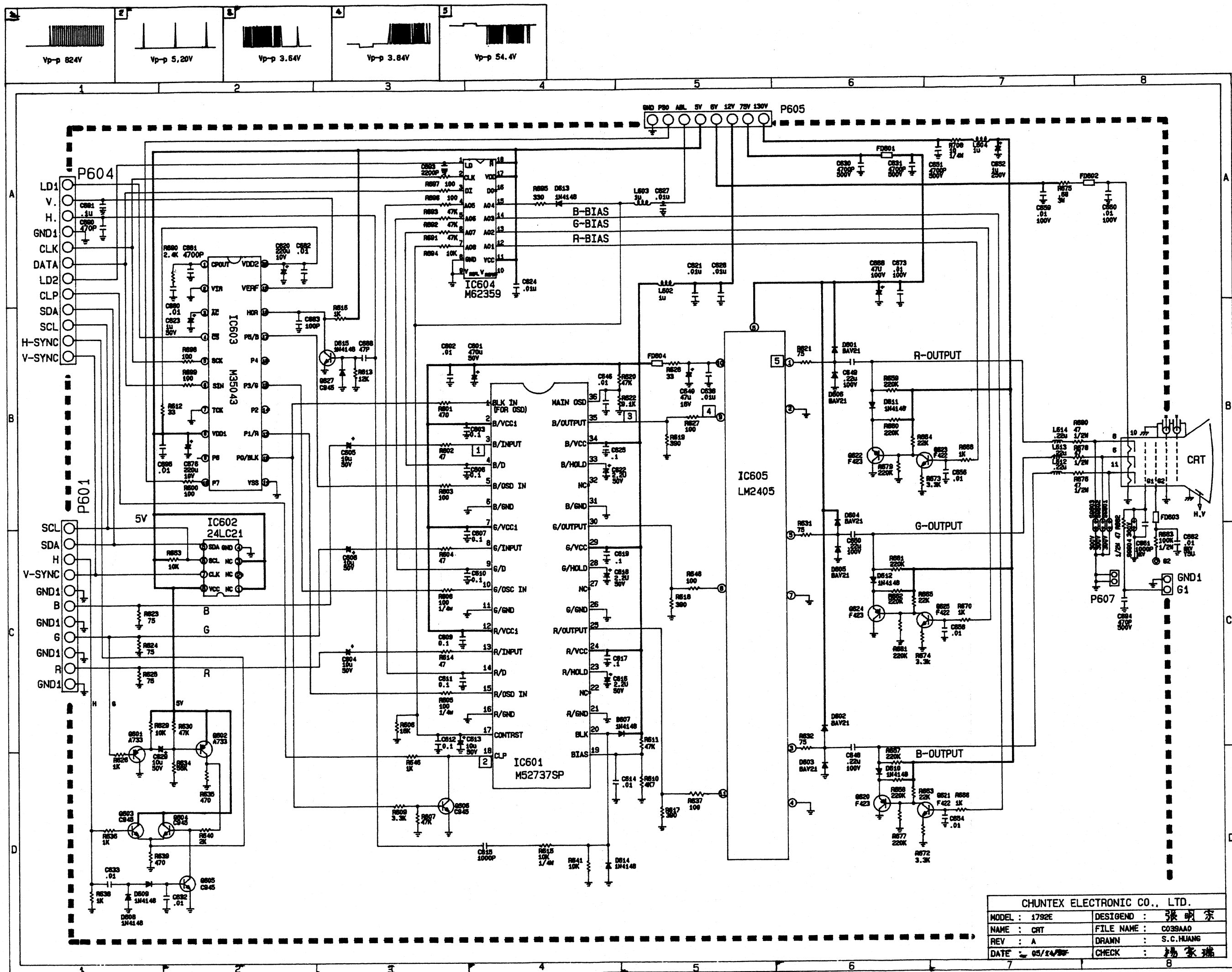
11.0 CIRCUIT DIAGRAM

12.0 EXPLODED VIEW

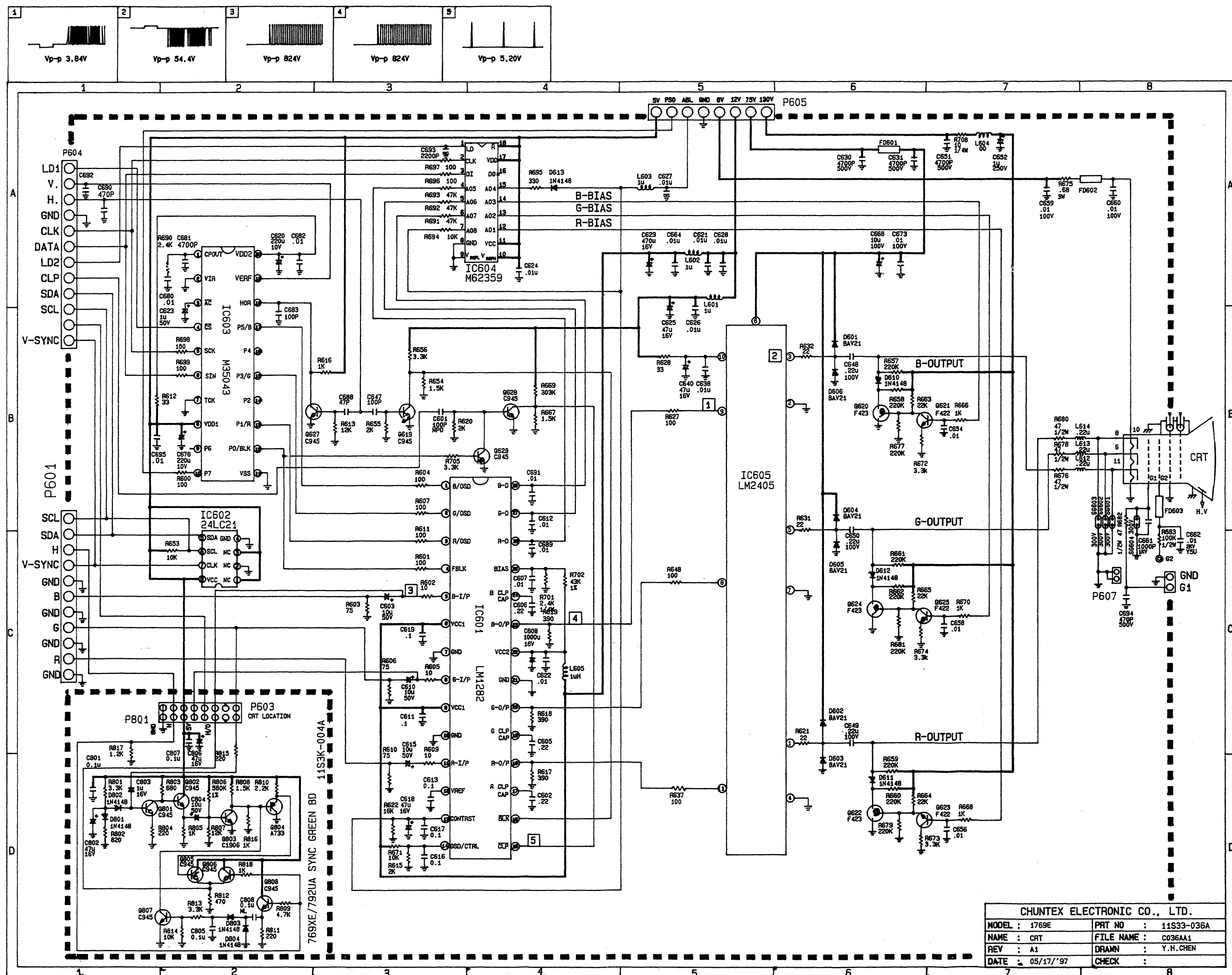
MEMO

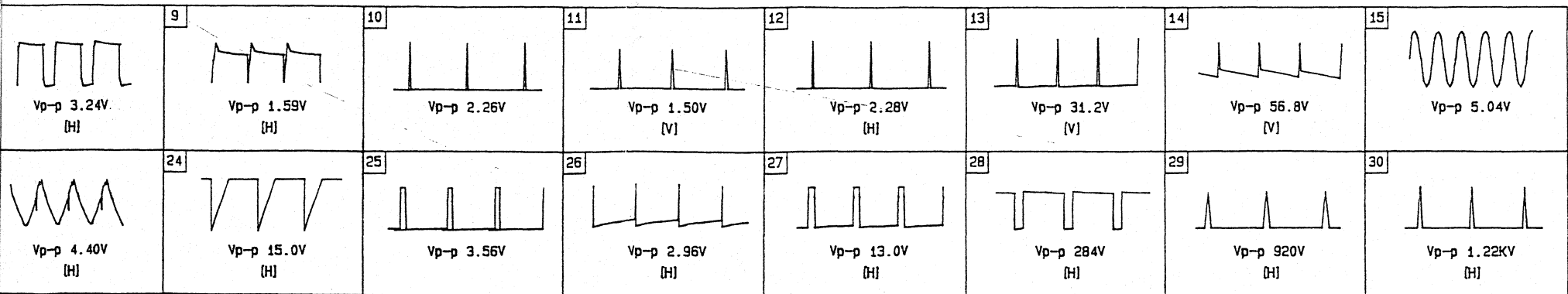
Handwriting practice lines consisting of 30 horizontal dotted lines.

OWNER: _____

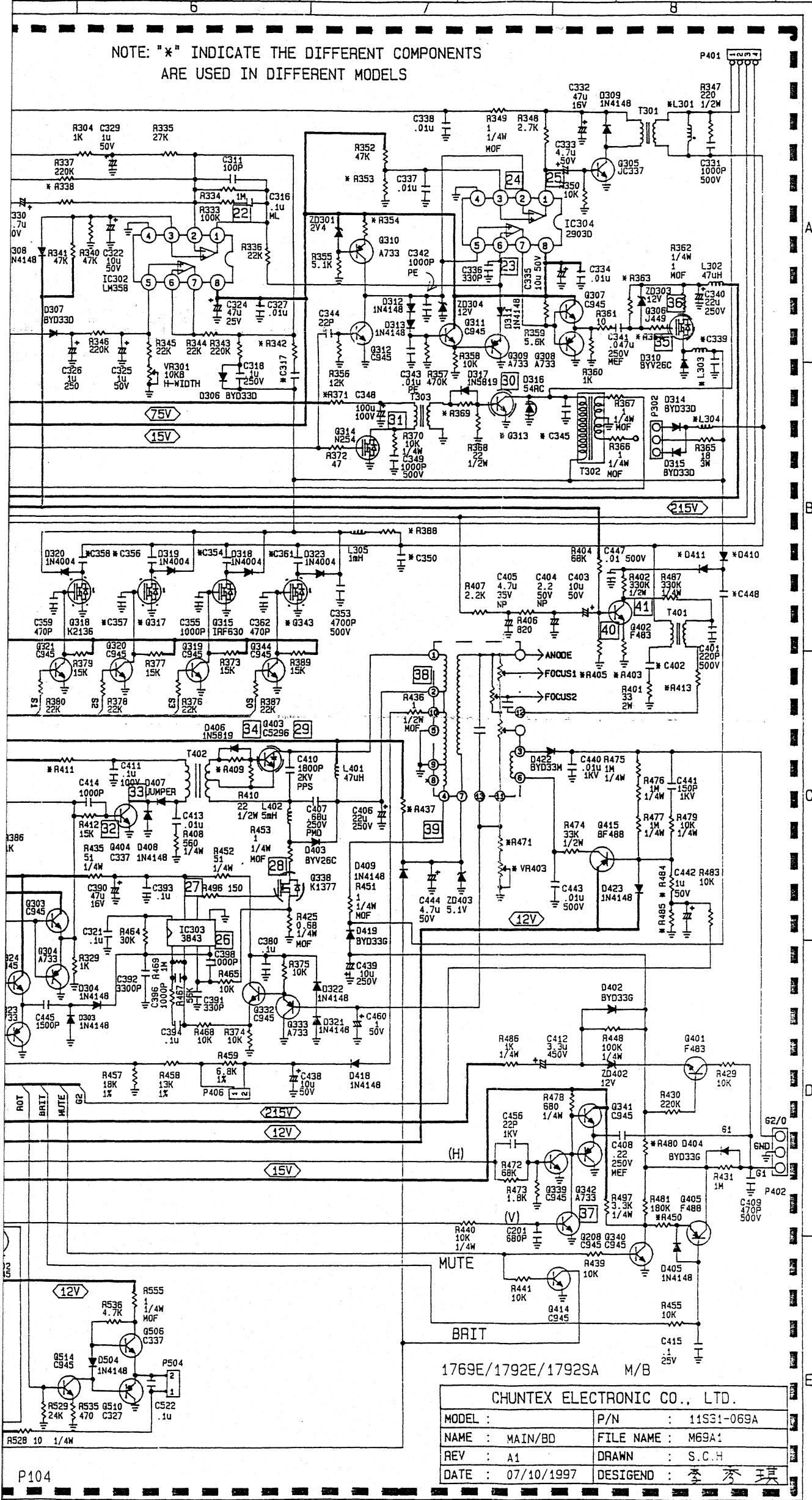


CHUNTEX ELECTRONIC CO., LTD.			
MODEL : 1792E	DESIGNER :	張明宗	
NAME : CRT	FILE NAME :	C039AA0	
REV : A	DRAWN :	S.C.HUANG	
DATE : 05/14/98	CHECK :	楊家瑞	





NOTE: "*" INDICATE THE DIFFERENT COMPONENTS ARE USED IN DIFFERENT MODELS



MODEL		1769E	1792E	1792SA
LOCATION				
1	ZD105	36V	36V	47V
2	ZD106	36V	36V	43V
3	D410	BYD33G	JUMPER	JUMPER
4	D411	BYD33G	JUMPER	JUMPER
5	R136	X	X	33K
6	R147	270	270	390
7	R233	2K	1.5K	1.6K
8	R310	15K	15K	16K
9	R311	13K	13K	12K
10	R326	47K	47K	39K
11	R330	62K	62K	51K
12	R331	7.2K 1%	6.2K 1%	6.52K 1%
13	R338	10K	13K	7.5K
14	R342	15K	2K	2.2K
15	R353	13K	13K	18K
16	R354	1.5K	1.5K	1.1K
17	R363	4.7K	4.7K	4.7K 1%
18	R364	220	220	220 1%
19	R369	2.2 3W	1 5W	1 5W
20	R371	680 3W	680 5W	470 5W
21	R381	2K7	2K7	7K5
22	R388	68 1W	33 1W	27 2W
23	R403	1.2K	3.3K	2.2K
24	R405	8.2K	12K	9.1K
25	R409	3.3 3W	3.3 3W	3.3 5W
26	R411	150 2W	220 2W	270 2W
27	R413	10K 1/2W	JUMPER	JUMPER
28	R437	390K 1/4W	390K 1/4W	374K 1/4W
29	R450	6.8K	11K	6K8
30	R471	8.2K 1%	33K 1%	32.4K 1%
31	R480	62K 1/2W	120K 1/2W	62K 1/2W
32	R484	24K 1/4W	24K 1/4W	22K 1/4W
33	R485	91K 1/4W	91K 1/4W	100K 1/4W
34	R540	1K	X	X
35	R541	X	1K	X
36	R542	270	JUMPER	JUMPER
37	C117	1000P/50V	1000P/50V	1000P/50V
38	C207	0.22u/63V	0.22u/63V	0.27u/63V
39	C317	470P/500V	820P/500V	820P/500V
40	C339	1.8u/250V	1.8u/250V	3.3u/250V
41	C345	3900P/2KV	4700P/2KV	4700P/2KV
42	C350	0.27u/400V	0.27u/400V	0.25u/400V
43	C354	0.1u/400V	0.068u/400V	0.1u/400V
44	C356	0.27u/400V	0.18u/400V	0.27u/400V
45	C357	1000P/50V	470P/50V	470P/50V
46	C358	0.68u/250V	0.47u/400V	0.56u/400V
47	C361	X	1.2u/250V	1.2u/250V
48	C402	.015u/250V	.015u/250V	X
49	C448	4700P/500V	X	X
50	Q313	C4924	C3996	C3996
51	Q317	IRF630	K2136	K2136
52	Q343	IRF630	K2136	K2136
53	Q511	2SA733	2SA733	X
54	L301	9.8uH	5.7uH	4.1uH
55	L303	5mH	5mH	2.5mH
56	L304	1mH	1mH	0.5mH
57	VR403	20K	10K	10K
58	IC503	74LS74	74LS74	X
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				

1769E/1792E/1792SA M/B

CHUNTEX ELECTRONIC CO., LTD.

MODEL : P/N : 11S31-069A

NAME : MAIN/BD FILE NAME : M69A1

REV : A1 DRAWN : S.C.H

DATE : 07/10/1997 DESIGEND : 李秀琪